RACT/BACT/LAER CLEARINGHOUSE CLEAN AIR TECHNOLOGY CENTER ANNUAL REPORT FOR 1999

A COMPILATION OF CONTROL TECHNOLOGY DETERMINATIONS NINTH SUPPLEMENT TO 1990 EDITION

Prepared by:

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RBLC ON-LINE ADDRESSES

The RACT/BACT/LAER Clearinghouse (RBLC) maintains an on-line data base of all of the control technology determinations that have been submitted to it. This electronic version of the RBLC and other related information are available at the Internet addresses and telephone numbers listed below. Detailed instructions about how to access the RBLC are contained in this document. Please refer to the Table of Contents.

World Wide Web (WWW) www.epa.gov/ttn/catc/

Telnet ttnbbs.rtpnc.epa.gov

FTP ttnftp.rtpnc.epa.gov

Bulletin Board System (BBS) 919-541-5742

The RBLC can be reached by clicking the appropriate icon on the CATC home page.

ACKNOWLEDGMENT

This project would not have been possible without the excellent cooperation of the many state and local air pollution control agencies and EPA Regional Offices who submitted the necessary technical information.

Special thanks are given to Mr. William Becker, Executive Secretary for the State and Territorial Air Pollution Program Administrators/Association of Local Air Pollution Control Officials (STAPPA/ALAPCO), Mr. Robert Hodanbosi from the Ohio EPA, representing STAPPA, and other state, local, and EPA Regional Office representatives who have provided recommendations, guidance, and overall support for the RACT/BACT/LAER Clearinghouse effort over the past several years.

INTRODUCTION

BACKGROUND

The Clean Air Act prescribes several technology-based limitations affecting new or modified air pollution sources: 1) new source performance standards (NSPS); 2) best available control technology (BACT); and 3) lowest achievable emission rate (LAER). New Source Performance Standards are uniform national emission standards set by EPA for specific categories of new or modified stationary sources. In addition to meeting NSPS when applicable, major new or modified sources must also install either BACT or LAER, both of which are determined on a case-by-case basis. In all cases, BACT or LAER must be at least as stringent as any applicable NSPS. The BACT requirement, which is a part of the Prevention of Significant Air Quality Deterioration program (Sections 165 and 169 of the Clean Air Act), applies to emissions in areas that are in attainment with National Ambient Air Quality Standards (NAAQS). The LAER requirement, which is a part of the Nonattainment Program (Sections 171 and 172 of the Clean Air Act), applies to emissions that affect areas that are not in attainment with the NAAQS. While the specific criteria governing a BACT, LAER, or NSPS emission limit vary, the general underlying approach for all such determinations is to require "best control" on all major new or modified sources. Since 1977, state and local air pollution control agencies have gradually assumed primary responsibility for implementing BACT and LAER. As this authority was decentralized from the Federal government, it became important that information be made available to control agencies to assist them in making control technology determinations in a nationally consistent manner.

The 1990 Clean Air Act Amendments (CAAA) mandated several minor changes to the BACT/LAER Clearinghouse. Although the changes were minor, state and local agencies should note them for future consideration. The first change involved the name and an addition to the type of data contained in the Clearinghouse. The name has been changed to the RACT/BACT/LAER Clearinghouse (RBLC) and now includes reasonably available control technology (RACT) determinations. RACT is defined as the lowest emission limitation that a particular source is capable of meeting by application of control technology that is reasonably available considering technological and economic feasibility. RACT is the minimum

requirement EPA can accept for existing major sources in non-attainment state plans. Control Technique Guideline (CTG) documents are assembled by the EPA to assist state and local air pollution control agencies in determining the level of control that should be required within each area. The RBLC accepts case-by-case RACT decisions, as well as general RACT requirements, to assist state and local agencies in determining what level of control other areas of the country are requiring and, in turn, what level of control should be required within their jurisdiction.

The second change mandated by the 1990 CAAA involves LAER determinations. Prior to the 1990 CAAA, all submittals to the Clearinghouse were voluntary. However, Section 173(d) of the 1990 CAAA now mandates that state and local agencies submit any and all LAER determinations that they issue.

The basic purposes of the RBLC are to: 1) provide state and local air pollution control agencies, industry, and the public with current information on case-by-case control technology determinations that are made nationwide, and 2) promote communication, cooperation, and sharing of control technology information among the permitting agencies. The information presented in this compilation was abstracted from preconstruction permits and submitted by the state and local air pollution control agencies and EPA regional offices. The Clearinghouse is intended as a reference for state and local agencies in making RACT/BACT/LAER decisions.

The RBLC's primary vehicle for sharing control technology information is a data base of all determinations submitted to the RBLC. This RACT/BACT/LAER Clearinghouse information system permits on-line querying of the data base and makes the results available for viewing onscreen or downloading to a PC. This information system also supports direct submittals of control technology determinations by permitting agencies. Routine access to the data base is available to anyone who has a personal computer with Internet access or a modem and communication software.

Until 1995, the RBLC also published comprehensive compilations of new and revised control technology determinations every five years. The 1985 RBLC compilation contains all determinations submitted to the Clearinghouse prior to June 1985. The 1990 RBLC compilation contains all determinations submitted to the Clearinghouse from June 1985 to June 1990. In between the years for the comprehensive compilations and each year since 1990, the Clearinghouse published annual supplements to the preceding compilation. Because the RBLC data base

contains complete and current information on all determinations submitted to the Clearinghouse since it began operation and is easy to access and use, RBLC clients have made the on-line data base their preferred method of accessing determinations. As a result of this development and the desire to avoid the expense of printing a large report of questionable value to clients, the RBLC decided to print an annual supplement in 1995 instead of a five year compilation. This 1999 edition, the ninth supplement to the 1990 compilation, contains determinations submitted to the Clearinghouse from June 1998 to May 1999.

All RBLC supplements contain detailed information only for those permits entered into the Clearinghouse since the last published compilation or supplement. The 1999 edition adds 168 new determinations entered into the system from June 1998 to May 1999. In addition, the 1999 supplement includes 53 updated determinations previously included in the Clearinghouse. The data base now contains several thousand determinations from 50 States and three territories. This edition also includes a comprehensive index of all permits entered into the system since June 1994. The comprehensive index serves as an aid to locating all determinations added to the Clearinghouse since the last published compilation. When the publication schedule included a comprehensive compilation every five years, the index was of a manageable size. As explained above, the 1995 compilation was superseded by an annual supplement, and it is expected that annual supplements will continue to be published instead of full compilations. Rather than expanding the comprehensive index to include all years since the last compilation (1990), the index now includes the most recent five years of determinations. Future supplements will contain an index for only the determinations entered into the Clearinghouse in the five years prior to publication.

Figure 1 summarizes the control technology determinations received or updated since the publication of the June 1998 report, sorted by RBLC ID. This listing contains the identification number, the name of the company, and the process type code(s). The listing is provided to aid state and local agency personnel and other users in quickly identifying new information available since the 1998 published edition of the Clearinghouse.

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CA-0809 LOUISIANA-PACIFIC CORPORATION 30.005 CA-0810 SACRAMENTO COGENERATION AUTHORITY P&G 15.004 CA-0811 SACRAMENTO POWER AUTHORITY CAMPBELL SOUP 15.004 CA-0812 CARSON ENERGY GROUP & CENTERAL VALLEY FI 15.004 CA-0813 SEPCO 15.004 CA-0814 SHELL MARTINEZ REFINING COMPANY 50.999 CA-0823 TRI-TECH GRAPHICS INC. 41.999 CA-0823 TRI-TECH GRAPHICS INC. 11.999 CA-0824 BIORECYCLING TECHNOLOGIES, INC 11.999 CA-0825 DOCTORS MEDICAL CENTER 11.005 CA-0826 AUTOMATION USA 49.008 CA-0827 DARLING & DURST 42.01 CA-0828 DELTA PLASTICS 41.016 CA-0829 G.E.N.Y. OPERATIONS COMPANY 15.004 CA-0831 SIMON NEWMAN, INC. 70.007 CA-0831 SIMON NEWMAN, INC. 70.007 CA-0832 MODESTO STEAM LAUNDRY & CLEANERS 49.003 CA-0833 CONCRETE PRODUCTS, INC. 41.023 CA-0834 LABEL TECHNO			30.004
CA-0810 SACRAMENTO COGENERATION AUTHORITY P&G 15.004 CA-0811 SACRAMENTO POWER AUTHORITY CAMPBELL SOUP 15.004 CA-0812 CARSON ENERGY GROUP & CENTERAL VALLEY FI 15.004 CA-0813 SEPCO 15.004 CA-0814 SHELL MARTINEZ REFINING COMPANY 50.999 CA-0823 TRI-TECH GRAPHICS INC. 41.999 CA-0824 BIORECYCLING TECHNOLOGIES, INC 11.999 CA-0825 DOCTORS MEDICAL CENTER 11.005 CA-0826 AUTOMATION USA 49.008 CA-0827 DARLING & DURST 42.01 CA-0828 DELTA PLASTICS 41.016 CA-0829 G.E.N.Y. OPERATIONS COMPANY 15.004 CA-0830 ARCHIE CRIPPEN 15.002 CA-0831 SIMON NEWMAN, INC. 70.007 CA-0832 MODESTO STEAM LAUNDRY & CLEANERS 49.003 CA-0833 CONCRETE PRODUCTS, INC. 41.999 CA-0834 LABEL TECHNOLOGY INC. 41.013 CA-0835 PELCO 41.014 CA-0836 STERLING WEST, INC., ACME AUTOWORKS	AR-0021	QUANEX CORPORATION - MACSTEEL DIVISION	81.007
CA-0811 SACRAMENTO POWER AUTHORITY CAMPBELL SOUP 15.004 CA-0812 CARSON ENERGY GROUP & CENTERAL VALLEY FI 15.004 CA-0813 SEPCO 15.004 CA-0814 SHELL MARTINEZ REFINING COMPANY 50.999 CA-0823 TRI-TECH GRAPHICS INC. 41.999 CA-0824 BIORECYCLING TECHNOLOGIES, INC 11.999 CA-0825 DOCTORS MEDICAL CENTER 11.005 CA-0826 AUTOMATION USA 49.008 CA-0827 DARLING & DURST 42.01 CA-0828 DELTA PLASTICS 41.016 CA-0829 G.E.N.Y. OPERATIONS COMPANY 15.004 CA-0830 ARCHIE CRIPPEN 15.002 CA-0831 SIMON NEWMAN, INC. 70.007 CA-0832 MODESTO STEAM LAUNDRY & CLEANERS 49.003 CA-0833 CONCRETE PRODUCTS, INC. 41.999 CA-0834 LABEL TECHNOLOGY INC. 41.013 CA-0835 PELCO 41.013 CA-0836 STERLING WEST, INC. 41.014 CA-0837 CITY OF MODESTO, COMPOST FACILITY 61.012 99.999 CA-0838 AUTO VENTURES, INC., ACME	CA-0809	LOUISIANA-PACIFIC CORPORATION	30.005
CA-0812 CARSON ENERGY GROUP & CENTERAL VALLEY FI 15.004 CA-0813 SEPCO 15.004 CA-0814 SHELL MARTINEZ REFINING COMPANY 50.999 CA-0823 TRI-TECH GRAPHICS INC. 41.999 CA-0824 BIORECYCLING TECHNOLOGIES, INC 11.999 CA-0825 DOCTORS MEDICAL CENTER 11.005 CA-0826 AUTOMATION USA 49.008 CA-0827 DARLING & DURST 42.01 CA-0828 DELTA PLASTICS 41.016 CA-0829 G.E.N.Y. OPERATIONS COMPANY 15.004 CA-0830 ARCHIE CRIPPEN 15.002 CA-0831 SIMON NEWMAN, INC. 70.007 CA-0832 MODESTO STEAM LAUNDRY & CLEANERS 49.003 CA-0833 CONCRETE PRODUCTS, INC. 41.999 CA-0834 LABEL TECHNOLOGY INC. 41.023 CA-0835 PELCO 41.013 CA-0836 STERLING WEST, INC. 41.014 CA-0837 CITY OF MODESTO, COMPOST FACILITY 61.012 99.999 CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0841 THE ROD MCLE	CA-0810	SACRAMENTO COGENERATION AUTHORITY P&G	15.004
CA-0813 SEPCO 15.004 CA-0814 SHELL MARTINEZ REFINING COMPANY 50.999 CA-0823 TRI-TECH GRAPHICS INC. 41.999 CA-0824 BIORECYCLING TECHNOLOGIES, INC 11.999 CA-0825 DOCTORS MEDICAL CENTER 11.005 CA-0826 AUTOMATION USA 49.008 CA-0827 DARLING & DURST 42.01 CA-0828 DELTA PLASTICS 41.016 CA-0829 G.E.N.Y. OPERATIONS COMPANY 15.004 CA-0830 ARCHIE CRIPPEN 15.002 CA-0831 SIMON NEWMAN, INC. 70.007 CA-0832 MODESTO STEAM LAUNDRY & CLEANERS 49.003 CA-0833 CONCRETE PRODUCTS, INC. 41.999 CA-0834 LABEL TECHNOLOGY INC. 41.023 CA-0835 PELCO 41.013 CA-0836 STERLING WEST, INC. 41.014 CA-0837 CITY OF MODESTO, COMPOST FACILITY 61.012 99.999 CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0839 BOB WONDRIES FORD 41.002 CA-0841 THE ROD MCLELLAN COMPANY	CA-0811	SACRAMENTO POWER AUTHORITY CAMPBELL SOUP	15.004
CA-0814 SHELL MARTINEZ REFINING COMPANY 50.999 CA-0823 TRI-TECH GRAPHICS INC. 41.999 CA-0824 BIORECYCLING TECHNOLOGIES, INC 11.999 CA-0825 DOCTORS MEDICAL CENTER 11.005 CA-0826 AUTOMATION USA 49.008 CA-0827 DARLING & DURST 42.01 CA-0828 DELTA PLASTICS 41.016 CA-0829 G.E.N.Y. OPERATIONS COMPANY 15.004 CA-0830 ARCHIE CRIPPEN 15.002 CA-0831 SIMON NEWMAN, INC. 70.007 CA-0832 MODESTO STEAM LAUNDRY & CLEANERS 49.003 CA-0833 CONCRETE PRODUCTS, INC. 41.999 CA-0834 LABEL TECHNOLOGY INC. 41.023 CA-0835 PELCO 41.013 CA-0836 STERLING WEST, INC. 41.014 CA-0837 CITY OF MODESTO, COMPOST FACILITY 61.012 99.999 CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0839 BOB WONDRIES FORD 41.002 CA-0841 THE ROD MCLELLAN COMPANY 61.999 CA-0842 TORCH OPERATING COMPANY, NUEVO - PL	CA-0812	CARSON ENERGY GROUP & CENTERAL VALLEY FI	15.004
CA-0823 TRI-TECH GRAPHICS INC. 41.999 CA-0824 BIORECYCLING TECHNOLOGIES, INC 11.999 CA-0825 DOCTORS MEDICAL CENTER 11.005 CA-0826 AUTOMATION USA 49.008 CA-0827 DARLING & DURST 42.01 CA-0828 DELTA PLASTICS 41.016 CA-0829 G.E.N.Y. OPERATIONS COMPANY 15.004 CA-0830 ARCHIE CRIPPEN 15.002 CA-0831 SIMON NEWMAN, INC. 70.007 CA-0832 MODESTO STEAM LAUNDRY & CLEANERS 49.003 CA-0833 CONCRETE PRODUCTS, INC. 41.999 CA-0834 LABEL TECHNOLOGY INC. 41.023 CA-0835 PELCO 41.013 CA-0836 STERLING WEST, INC. 41.014 CA-0837 CITY OF MODESTO, COMPOST FACILITY 61.012 99.999 CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0841 THE ROD MCLELLAN COMPANY 61.999 CA-0842 TORCH OPERATING COMPANY, NUEVO - PLATFOR 50.001 CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999	CA-0813	SEPCO	15.004
CA-0824 BIORECYCLING TECHNOLOGIES, INC 11.999 CA-0825 DOCTORS MEDICAL CENTER 11.005 CA-0826 AUTOMATION USA 49.008 CA-0827 DARLING & DURST 42.01 CA-0828 DELTA PLASTICS 41.016 CA-0829 G.E.N.Y. OPERATIONS COMPANY 15.004 CA-0830 ARCHIE CRIPPEN 15.002 CA-0831 SIMON NEWMAN, INC. 70.007 CA-0832 MODESTO STEAM LAUNDRY & CLEANERS 49.003 CA-0833 CONCRETE PRODUCTS, INC. 41.999 CA-0834 LABEL TECHNOLOGY INC. 41.023 CA-0835 PELCO 41.013 CA-0836 STERLING WEST, INC. 41.014 CA-0837 CITY OF MODESTO, COMPOST FACILITY 61.012 99.999 CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0839 BOB WONDRIES FORD 41.002 CA-0841 THE ROD MCLELLAN COMPANY 61.999 CA-0842 TORCH OPERATING COMPANY, NUEVO - PLATFOR 50.001 CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999	CA-0814	SHELL MARTINEZ REFINING COMPANY	50.999
CA-0825 DOCTORS MEDICAL CENTER 11.005 CA-0826 AUTOMATION USA 49.008 CA-0827 DARLING & DURST 42.01 CA-0828 DELTA PLASTICS 41.016 CA-0829 G.E.N.Y. OPERATIONS COMPANY 15.004 CA-0830 ARCHIE CRIPPEN 15.002 CA-0831 SIMON NEWMAN, INC. 70.007 CA-0832 MODESTO STEAM LAUNDRY & CLEANERS 49.003 CA-0833 CONCRETE PRODUCTS, INC. 41.999 CA-0834 LABEL TECHNOLOGY INC. 41.023 CA-0835 PELCO 41.013 CA-0836 STERLING WEST, INC. 41.014 CA-0837 CITY OF MODESTO, COMPOST FACILITY 61.012 99.999 CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0839 BOB WONDRIES FORD 41.002 CA-0841 THE ROD MCLELLAN COMPANY 61.999 CA-0842 TORCH OPERATING COMPANY, NUEVO - PLATFOR 50.001 CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999	CA-0823	TRI-TECH GRAPHICS INC.	41.999
CA-0826 AUTOMATION USA 49.008 CA-0827 DARLING & DURST 42.01 CA-0828 DELTA PLASTICS 41.016 CA-0829 G.E.N.Y. OPERATIONS COMPANY 15.004 CA-0830 ARCHIE CRIPPEN 15.002 CA-0831 SIMON NEWMAN, INC. 70.007 CA-0832 MODESTO STEAM LAUNDRY & CLEANERS 49.003 CA-0833 CONCRETE PRODUCTS, INC. 41.999 CA-0834 LABEL TECHNOLOGY INC. 41.023 CA-0835 PELCO 41.013 CA-0836 STERLING WEST, INC. 41.014 CA-0837 CITY OF MODESTO, COMPOST FACILITY 61.012 99.999 CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0839 BOB WONDRIES FORD 41.002 CA-0841 THE ROD MCLELLAN COMPANY 61.999 CA-0842 TORCH OPERATING COMPANY, NUEVO - PLATFOR 50.001 CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999	CA-0824	BIORECYCLING TECHNOLOGIES, INC	11.999
CA-0827 DARLING & DURST 42.01 CA-0828 DELTA PLASTICS 41.016 CA-0829 G.E.N.Y. OPERATIONS COMPANY 15.004 CA-0830 ARCHIE CRIPPEN 15.002 CA-0831 SIMON NEWMAN, INC. 70.007 CA-0832 MODESTO STEAM LAUNDRY & CLEANERS 49.003 CA-0833 CONCRETE PRODUCTS, INC. 41.999 CA-0834 LABEL TECHNOLOGY INC. 41.023 CA-0835 PELCO 41.013 CA-0836 STERLING WEST, INC. 41.014 CA-0837 CITY OF MODESTO, COMPOST FACILITY 61.012 99.999 CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0839 BOB WONDRIES FORD 41.002 CA-0841 THE ROD MCLELLAN COMPANY 61.999 CA-0842 TORCH OPERATING COMPANY, NUEVO - PLATFOR 50.001 CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999	CA-0825	DOCTORS MEDICAL CENTER	11.005
CA-0828 DELTA PLASTICS 41.016 CA-0829 G.E.N.Y. OPERATIONS COMPANY 15.004 CA-0830 ARCHIE CRIPPEN 15.002 CA-0831 SIMON NEWMAN, INC. 70.007 CA-0832 MODESTO STEAM LAUNDRY & CLEANERS 49.003 CA-0833 CONCRETE PRODUCTS, INC. 41.999 CA-0834 LABEL TECHNOLOGY INC. 41.023 CA-0835 PELCO 41.013 CA-0836 STERLING WEST, INC. 41.014 CA-0837 CITY OF MODESTO, COMPOST FACILITY 61.012 99.999 CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0839 BOB WONDRIES FORD 41.002 CA-0841 THE ROD MCLELLAN COMPANY 61.999 CA-0842 TORCH OPERATING COMPANY, NUEVO - PLATFOR 50.001 CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999	CA-0826	AUTOMATION USA	49.008
CA-0829 G.E.N.Y. OPERATIONS COMPANY 15.004 CA-0830 ARCHIE CRIPPEN 15.002 CA-0831 SIMON NEWMAN, INC. 70.007 CA-0832 MODESTO STEAM LAUNDRY & CLEANERS 49.003 CA-0833 CONCRETE PRODUCTS, INC. 41.999 CA-0834 LABEL TECHNOLOGY INC. 41.023 CA-0835 PELCO 41.013 CA-0836 STERLING WEST, INC. 41.014 CA-0837 CITY OF MODESTO, COMPOST FACILITY 61.012 99.999 CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0839 BOB WONDRIES FORD 41.002 CA-0841 THE ROD MCLELLAN COMPANY 61.999 CA-0842 TORCH OPERATING COMPANY, NUEVO - PLATFOR 50.001 CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999	CA-0827	DARLING & DURST	42.01
CA-0830 ARCHIE CRIPPEN 15.002 CA-0831 SIMON NEWMAN, INC. 70.007 CA-0832 MODESTO STEAM LAUNDRY & CLEANERS 49.003 CA-0833 CONCRETE PRODUCTS, INC. 41.999 CA-0834 LABEL TECHNOLOGY INC. 41.023 CA-0835 PELCO 41.013 CA-0836 STERLING WEST, INC. 41.014 CA-0837 CITY OF MODESTO, COMPOST FACILITY 61.012 99.999 CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0839 BOB WONDRIES FORD 41.002 CA-0841 THE ROD MCLELLAN COMPANY 61.999 CA-0842 TORCH OPERATING COMPANY, NUEVO - PLATFOR 50.001 CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999	CA-0828	DELTA PLASTICS	41.016
CA-0831 SIMON NEWMAN, INC. 70.007 CA-0832 MODESTO STEAM LAUNDRY & CLEANERS 49.003 CA-0833 CONCRETE PRODUCTS, INC. 41.999 CA-0834 LABEL TECHNOLOGY INC. 41.023 CA-0835 PELCO 41.013 CA-0836 STERLING WEST, INC. 41.014 CA-0837 CITY OF MODESTO, COMPOST FACILITY 61.012 99.999 CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0839 BOB WONDRIES FORD 41.002 CA-0841 THE ROD MCLELLAN COMPANY 61.999 CA-0842 TORCH OPERATING COMPANY, NUEVO - PLATFOR 50.001 CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999	CA-0829	G.E.N.Y. OPERATIONS COMPANY	15.004
CA-0832 MODESTO STEAM LAUNDRY & CLEANERS 49.003 CA-0833 CONCRETE PRODUCTS, INC. 41.999 CA-0834 LABEL TECHNOLOGY INC. 41.023 CA-0835 PELCO 41.013 CA-0836 STERLING WEST, INC. 41.014 CA-0837 CITY OF MODESTO, COMPOST FACILITY 61.012 99.999 99.999 CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0839 BOB WONDRIES FORD 41.002 CA-0841 THE ROD MCLELLAN COMPANY 61.999 CA-0842 TORCH OPERATING COMPANY, NUEVO - PLATFOR 50.001 CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999	CA-0830	ARCHIE CRIPPEN	15.002
CA-0832 MODESTO STEAM LAUNDRY & CLEANERS 49.003 CA-0833 CONCRETE PRODUCTS, INC. 41.999 CA-0834 LABEL TECHNOLOGY INC. 41.023 CA-0835 PELCO 41.013 CA-0836 STERLING WEST, INC. 41.014 CA-0837 CITY OF MODESTO, COMPOST FACILITY 61.012 99.999 99.999 CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0839 BOB WONDRIES FORD 41.002 CA-0841 THE ROD MCLELLAN COMPANY 61.999 CA-0842 TORCH OPERATING COMPANY, NUEVO - PLATFOR 50.001 CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999	CA-0831	SIMON NEWMAN, INC.	70.007
CA-0833 CONCRETE PRODUCTS, INC. 41.999 CA-0834 LABEL TECHNOLOGY INC. 41.023 CA-0835 PELCO 41.013 CA-0836 STERLING WEST, INC. 41.014 CA-0837 CITY OF MODESTO, COMPOST FACILITY 61.012 99.999 99.999 CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0839 BOB WONDRIES FORD 41.002 CA-0841 THE ROD MCLELLAN COMPANY 61.999 CA-0842 TORCH OPERATING COMPANY, NUEVO - PLATFOR 50.001 CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999		·	
CA-0834 LABEL TECHNOLOGY INC. 41.023 CA-0835 PELCO 41.013 CA-0836 STERLING WEST, INC. 41.014 CA-0837 CITY OF MODESTO, COMPOST FACILITY 61.012 99.999 99.999 CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0839 BOB WONDRIES FORD 41.002 CA-0841 THE ROD MCLELLAN COMPANY 61.999 CA-0842 TORCH OPERATING COMPANY, NUEVO - PLATFOR 50.001 CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999			
CA-0835 PELCO 41.013 CA-0836 STERLING WEST, INC. 41.014 CA-0837 CITY OF MODESTO, COMPOST FACILITY 61.012 99.999 99.999 CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0839 BOB WONDRIES FORD 41.002 CA-0841 THE ROD MCLELLAN COMPANY 61.999 CA-0842 TORCH OPERATING COMPANY, NUEVO - PLATFOR 50.001 CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999		•	
CA-0836 STERLING WEST, INC. 41.014 CA-0837 CITY OF MODESTO, COMPOST FACILITY 61.012 99.999 99.999 CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0839 BOB WONDRIES FORD 41.002 CA-0841 THE ROD MCLELLAN COMPANY 61.999 CA-0842 TORCH OPERATING COMPANY, NUEVO - PLATFOR 50.001 CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999			
CA-0837 CITY OF MODESTO, COMPOST FACILITY 61.012 99.999 99.999 CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0839 BOB WONDRIES FORD 41.002 CA-0841 THE ROD MCLELLAN COMPANY 61.999 CA-0842 TORCH OPERATING COMPANY, NUEVO - PLATFOR 50.001 CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999			
CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0839 BOB WONDRIES FORD 41.002 CA-0841 THE ROD MCLELLAN COMPANY 61.999 CA-0842 TORCH OPERATING COMPANY, NUEVO - PLATFOR 50.001 CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999		·	
CA-0838 AUTO VENTURES, INC., ACME AUTOWORKS 41.002 CA-0839 BOB WONDRIES FORD 41.002 CA-0841 THE ROD MCLELLAN COMPANY 61.999 CA-0842 TORCH OPERATING COMPANY, NUEVO - PLATFOR 50.001 CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999	5501		
CA-0839BOB WONDRIES FORD41.002CA-0841THE ROD MCLELLAN COMPANY61.999CA-0842TORCH OPERATING COMPANY, NUEVO - PLATFOR50.001CA-0843MINNESOTA METHANE TAJIUAS CORPORATION15.999	CA-0838	AUTO VENTURES INC. ACME AUTOWORKS	
CA-0841 THE ROD MCLELLAN COMPANY 61.999 CA-0842 TORCH OPERATING COMPANY, NUEVO - PLATFOR 50.001 CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999			
CA-0842 TORCH OPERATING COMPANY, NUEVO - PLATFOR 50.001 CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999			
CA-0843 MINNESOTA METHANE TAJIUAS CORPORATION 15.999			
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	CA-0043	WIINNESOTA WETHANE TAJIUAS CURPURATION	21.002

Figure 1. Control technology determinations received or updated since June 1998.

CO-0028 VASTAR RESOURCES, INC. 15.004 CO-0029 VASTAR RESOUCRES, INC. 15.004 CO-0032 VASTAR RESOURCES, INC. 15.004 CO-0033 VASTAR RESOURCES, INC. 15.004 CO-0034 VASTAR RESOURCES, INC. 15.004 CO-0035 VASTAR RESOURCES, INC. 15.004 CO-0036 VASTAR RESOURCES, INC. 15.004 CO-0037 COLORADO SPRINGS UTILITIES 15.004 CT-0130 BRIDGEPORT ENERGY, LLC 15.004 CT-0132 CITY OF WATERBURY 21.004 CT-0133 PFIZER INC. 69.011 CT-0134 PFIZER INC. 69.011 CT-0135 PFIZER INC. 69.011 CT-0136 UNITED STATES SURGICAL CORPORATION 99.004 CT-0137 UNITED STATES SURGICAL CORPORATION 99.004 CT-0138 UNITED STATES SURGICAL CORPORATION 99.004 CT-0139 PDC EL PASO MILFORD LLC 15.004 CT-0140 PDC EL PASO MILFORD LLC 15.004 CT-0140 PDC EL PASO MILFORD LLC 15.004	ID NUMBER	COMPANY NAME	PROCESS CODE(S)
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CO-0037 COLORADO SPRINGS UTILITIES 15.004 CT-0130 BRIDGEPORT ENERGY, LLC 15.004 CT-0132 CITY OF WATERBURY 21.004 CT-0133 PFIZER INC. 69.011 CT-0134 PFIZER INC. 69.011 CT-0135 PFIZER INC. 69.011 CT-0136 UNITED STATES SURGICAL CORPORATION 99.004 CT-0137 UNITED STATES SURGICAL CORPORATION 99.004 CT-0138 UNITED STATES SURGICAL CORPORATION 99.004 CT-0138 UNITED STATES SURGICAL CORPORATION 99.004 CT-0139 PDC EL PASO MILFORD LLC 15.004 CT-0140 PDC EL PASO MILFORD LLC 15.004 DE-0014 STAR ENTERPRISE 15.007 DE-0015 STAR ENTERPRISE 15.007 FL-0115 CITY OF LAKELAND ELECTRIC AND WATER UTIL 15.007 FL-0116 SANTA ROSA ENERGY LLC 15.004 GA-0066 TENUSKA GEORGIA PARTNERS, L.P. 15.006 HI-0018 ENCOGEN HAWAII, L.P. 15.007 HI-0019 MAUI ELECTRIC COMPANY 15.002 HI-0020 HAWAII ELECTRIC LIGHT CO. 15.002 IA-0029 CARGILL, INC. 64.003	CO-0035	VASTAR RESOURCES, INC.	15.004
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CT-0132 CITY OF WATERBURY 21.004 CT-0133 PFIZER INC. 69.011 CT-0134 PFIZER INC. 69.011 CT-0135 PFIZER INC. 69.011 CT-0136 UNITED STATES SURGICAL CORPORATION 99.004 CT-0137 UNITED STATES SURGICAL CORPORATION 99.004 CT-0138 UNITED STATES SURGICAL CORPORATION 99.004 CT-0139 PDC EL PASO MILFORD LLC 15.004 CT-0140 PDC EL PASO MILFORD LLC 15.004 DE-0014 STAR ENTERPRISE 15.007 DE-0015 STAR ENTERPRISE 11.004 FL-0115 CITY OF LAKELAND ELECTRIC AND WATER UTIL 15.007 FL-0116 SANTA ROSA ENERGY LLC 15.004 GA-0066 TENUSKA GEORGIA PARTNERS, L.P. 15.004 HI-0018 ENCOGEN HAWAII, L.P. 15.007 HI-0019 MAUI ELECTRIC COMPANY 15.002 HI-0020 HAWAII ELECTRIC LIGHT CO. 64.003 GA-0029 CARGILL, INC. 64.003	CO-0037	COLORADO SPRINGS UTILITIES	15.004
CT-0133 PFIZER INC. 69.011 CT-0134 PFIZER INC. 69.011 CT-0135 PFIZER INC. 69.011 CT-0136 UNITED STATES SURGICAL CORPORATION 99.004 CT-0137 UNITED STATES SURGICAL CORPORATION 99.004 CT-0138 UNITED STATES SURGICAL CORPORATION 99.004 CT-0139 PDC EL PASO MILFORD LLC 15.004 CT-0140 PDC EL PASO MILFORD LLC 15.004 DE-0014 STAR ENTERPRISE 15.007 DE-0015 STAR ENTERPRISE 11.004 FL-0115 CITY OF LAKELAND ELECTRIC AND WATER UTIL 15.007 FL-0116 SANTA ROSA ENERGY LLC 15.004 GA-0066 TENUSKA GEORGIA PARTNERS, L.P. 15.004 HI-0018 ENCOGEN HAWAII, L.P. 15.007 HI-0019 MAUI ELECTRIC COMPANY 15.002 HI-0020 HAWAII ELECTRIC LIGHT CO. 64.003 IA-0029 CARGILL, INC. 64.003	CT-0130	BRIDGEPORT ENERGY, LLC	15.004
CT-0134 PFIZER INC. 69.011 CT-0135 PFIZER INC. 69.011 CT-0136 UNITED STATES SURGICAL CORPORATION 99.004 CT-0137 UNITED STATES SURGICAL CORPORATION 99.004 CT-0138 UNITED STATES SURGICAL CORPORATION 99.004 CT-0139 PDC EL PASO MILFORD LLC 15.004 CT-0140 PDC EL PASO MILFORD LLC 15.004 DE-0014 STAR ENTERPRISE 15.007 DE-0015 STAR ENTERPRISE 11.004 FL-0115 CITY OF LAKELAND ELECTRIC AND WATER UTIL 15.007 FL-0116 SANTA ROSA ENERGY LLC 15.004 GA-0066 TENUSKA GEORGIA PARTNERS, L.P. 15.004 HI-0018 ENCOGEN HAWAII, L.P. 15.007 HI-0019 MAUI ELECTRIC COMPANY 15.002 HI-0020 HAWAII ELECTRIC LIGHT CO. 15.002 IA-0029 CARGILL, INC. 64.003 64.004 64.004	CT-0132	CITY OF WATERBURY	21.004
CT-0135 PFIZER INC. 69.011 CT-0136 UNITED STATES SURGICAL CORPORATION 99.004 CT-0137 UNITED STATES SURGICAL CORPORATION 99.004 CT-0138 UNITED STATES SURGICAL CORPORATION 99.004 CT-0139 PDC EL PASO MILFORD LLC 15.004 CT-0140 PDC EL PASO MILFORD LLC 15.004 DE-0014 STAR ENTERPRISE 15.007 DE-0015 STAR ENTERPRISE 11.004 FL-0115 CITY OF LAKELAND ELECTRIC AND WATER UTIL 15.007 FL-0116 SANTA ROSA ENERGY LLC 15.004 GA-0066 TENUSKA GEORGIA PARTNERS, L.P. 15.004 HI-0018 ENCOGEN HAWAII, L.P. 15.007 HI-0019 MAUI ELECTRIC COMPANY 15.002 HI-0020 HAWAII ELECTRIC LIGHT CO. 15.002 IA-0029 CARGILL, INC. 64.003 64.004 64.004	CT-0133	PFIZER INC.	69.011
CT-0136 UNITED STATES SURGICAL CORPORATION 99.004 CT-0137 UNITED STATES SURGICAL CORPORATION 99.004 CT-0138 UNITED STATES SURGICAL CORPORATION 99.004 CT-0139 PDC EL PASO MILFORD LLC 15.004 CT-0140 PDC EL PASO MILFORD LLC 15.004 DE-0014 STAR ENTERPRISE 15.007 DE-0015 STAR ENTERPRISE 11.004 FL-0115 CITY OF LAKELAND ELECTRIC AND WATER UTIL 15.007 FL-0116 SANTA ROSA ENERGY LLC 15.004 GA-0066 TENUSKA GEORGIA PARTNERS, L.P. 15.004 HI-0018 ENCOGEN HAWAII, L.P. 15.007 HI-0019 MAUI ELECTRIC COMPANY 15.002 HI-0020 HAWAII ELECTRIC LIGHT CO. 15.002 IA-0029 CARGILL, INC. 64.003 64.004 64.005	CT-0134	PFIZER INC.	69.011
CT-0137 UNITED STATES SURGICAL CORPORATION 99.004 CT-0138 UNITED STATES SURGICAL CORPORATION 99.004 CT-0139 PDC EL PASO MILFORD LLC 15.004 CT-0140 PDC EL PASO MILFORD LLC 15.004 DE-0014 STAR ENTERPRISE 15.007 DE-0015 STAR ENTERPRISE 11.004 FL-0115 CITY OF LAKELAND ELECTRIC AND WATER UTIL 15.007 FL-0116 SANTA ROSA ENERGY LLC 15.004 GA-0066 TENUSKA GEORGIA PARTNERS, L.P. 15.004 HI-0018 ENCOGEN HAWAII, L.P. 15.007 HI-0019 MAUI ELECTRIC COMPANY 15.002 HI-0020 HAWAII ELECTRIC LIGHT CO. 15.002 IA-0029 CARGILL, INC. 64.003 64.004 64.005	CT-0135	PFIZER INC.	69.011
CT-0138 UNITED STATES SURGICAL CORPORATION 99.004 CT-0139 PDC EL PASO MILFORD LLC 15.004 CT-0140 PDC EL PASO MILFORD LLC 15.004 DE-0014 STAR ENTERPRISE 15.007 DE-0015 STAR ENTERPRISE 11.004 FL-0115 CITY OF LAKELAND ELECTRIC AND WATER UTIL 15.007 FL-0116 SANTA ROSA ENERGY LLC 15.004 GA-0066 TENUSKA GEORGIA PARTNERS, L.P. 15.004 HI-0018 ENCOGEN HAWAII, L.P. 15.007 HI-0019 MAUI ELECTRIC COMPANY 15.002 HI-0020 HAWAII ELECTRIC LIGHT CO. 15.002 IA-0029 CARGILL, INC. 64.003 64.004 64.005	CT-0136	UNITED STATES SURGICAL CORPORATION	99.004
CT-0139 PDC EL PASO MILFORD LLC 15.004 CT-0140 PDC EL PASO MILFORD LLC 15.004 DE-0014 STAR ENTERPRISE 15.007 DE-0015 STAR ENTERPRISE 11.004 FL-0115 CITY OF LAKELAND ELECTRIC AND WATER UTIL 15.007 FL-0116 SANTA ROSA ENERGY LLC 15.004 GA-0066 TENUSKA GEORGIA PARTNERS, L.P. 15.004 HI-0018 ENCOGEN HAWAII, L.P. 15.007 HI-0019 MAUI ELECTRIC COMPANY 15.002 HI-0020 HAWAII ELECTRIC LIGHT CO. 15.002 IA-0029 CARGILL, INC. 64.003 64.004 64.005	CT-0137	UNITED STATES SURGICAL CORPORATION	99.004
CT-0140 PDC EL PASO MILFORD LLC 15.004 DE-0014 STAR ENTERPRISE 15.007 DE-0015 STAR ENTERPRISE 11.004 FL-0115 CITY OF LAKELAND ELECTRIC AND WATER UTIL 15.007 FL-0116 SANTA ROSA ENERGY LLC 15.004 GA-0066 TENUSKA GEORGIA PARTNERS, L.P. 15.004 HI-0018 ENCOGEN HAWAII, L.P. 15.007 HI-0019 MAUI ELECTRIC COMPANY 15.002 HI-0020 HAWAII ELECTRIC LIGHT CO. 15.002 IA-0029 CARGILL, INC. 64.003 64.004 64.005	CT-0138	UNITED STATES SURGICAL CORPORATION	99.004
DE-0014 STAR ENTERPRISE 15.007 DE-0015 STAR ENTERPRISE 11.004 FL-0115 CITY OF LAKELAND ELECTRIC AND WATER UTIL 15.007 FL-0116 SANTA ROSA ENERGY LLC 15.004 GA-0066 TENUSKA GEORGIA PARTNERS, L.P. 15.004 HI-0018 ENCOGEN HAWAII, L.P. 15.007 HI-0019 MAUI ELECTRIC COMPANY 15.002 HI-0020 HAWAII ELECTRIC LIGHT CO. 15.002 IA-0029 CARGILL, INC. 64.003 64.004 64.005	CT-0139	PDC EL PASO MILFORD LLC	15.004
DE-0015 STAR ENTERPRISE 11.004 FL-0115 CITY OF LAKELAND ELECTRIC AND WATER UTIL 15.007 FL-0116 SANTA ROSA ENERGY LLC 15.004 GA-0066 TENUSKA GEORGIA PARTNERS, L.P. 15.004 HI-0018 ENCOGEN HAWAII, L.P. 15.007 HI-0019 MAUI ELECTRIC COMPANY 15.002 HI-0020 HAWAII ELECTRIC LIGHT CO. 15.002 IA-0029 CARGILL, INC. 64.003 64.004 64.005	CT-0140	PDC EL PASO MILFORD LLC	15.004
FL-0115 CITY OF LAKELAND ELECTRIC AND WATER UTIL 15.007 FL-0116 SANTA ROSA ENERGY LLC 15.004 GA-0066 TENUSKA GEORGIA PARTNERS, L.P. 15.004 HI-0018 ENCOGEN HAWAII, L.P. 15.007 HI-0019 MAUI ELECTRIC COMPANY 15.002 HI-0020 HAWAII ELECTRIC LIGHT CO. 15.002 IA-0029 CARGILL, INC. 64.003 64.004 64.005	DE-0014	STAR ENTERPRISE	15.007
FL-0116 SANTA ROSA ENERGY LLC 15.004 GA-0066 TENUSKA GEORGIA PARTNERS, L.P. 15.004 HI-0018 ENCOGEN HAWAII, L.P. 15.007 HI-0019 MAUI ELECTRIC COMPANY 15.002 HI-0020 HAWAII ELECTRIC LIGHT CO. 15.002 IA-0029 CARGILL, INC. 64.003 64.004 64.005	DE-0015	STAR ENTERPRISE	11.004
FL-0116 SANTA ROSA ENERGY LLC 15.004 GA-0066 TENUSKA GEORGIA PARTNERS, L.P. 15.004 HI-0018 ENCOGEN HAWAII, L.P. 15.007 HI-0019 MAUI ELECTRIC COMPANY 15.002 HI-0020 HAWAII ELECTRIC LIGHT CO. 15.002 IA-0029 CARGILL, INC. 64.003 64.004 64.005	FL-0115	CITY OF LAKELAND ELECTRIC AND WATER UTIL	15.007
GA-0066 TENUSKA GEORGIA PARTNERS, L.P. 15.004 15.006 HI-0018 ENCOGEN HAWAII, L.P. 15.007 HI-0019 MAUI ELECTRIC COMPANY 15.002 HI-0020 HAWAII ELECTRIC LIGHT CO. 15.002 IA-0029 CARGILL, INC. 64.003 64.004 64.005			
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HI-0018 ENCOGEN HAWAII, L.P. 15.007 HI-0019 MAUI ELECTRIC COMPANY 15.002 HI-0020 HAWAII ELECTRIC LIGHT CO. 15.002 IA-0029 CARGILL, INC. 64.003 64.004 64.005		•	
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IA-0029 CARGILL, INC. 64.003 64.004 64.005			
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Figure 1. Control technology determinations received or updated since June 1998.

ID NUMBER	COMPANY NAME	PROCESS CODE(S)
IA-0042	OMEGA CABINETS	41.025
IA-0043	CARGILL - EDDYVILLE	70.007
IA-0045	ALLIANT ENERGY	11.005
IA-0046	ARCHER DANIELS MIDLAND COMPANY	11.002
IA-0047	NICHOLS ALUMINUM CASTING COMPANY	82.01
IA-0047	CARGILL INC - SIOUX CITY	11.005
17-00-0	CARCILL INC - GIOCK OFF	70.007
		70.015
IA-0050	CARGILL-EDDYVILLE	11.005
IA-0050	ARCHER DANIELS MIDLAND COMPANY	11.003
	ROBBINS RESOURCE RECOVERY	
IL-0049		21.001
IL-0050	PPG INDUSTRIES	90.016
IL-0051	BIRMINGHAM STEEL	81.007
IL-0052	MISSISSIPPI LIME COMPANY	90.019
IL-0053	NASCOTE INDUSTRIES	41.002
IL-0055	BROWN PRINTING COMPANY	41.022
IL-0056	QUEBECOR	41.022
IL-0057	ILLINOIS CEMENT COMPANY	90.028
IL-0058	ARCHER DANIELS MIDLAND COMPANY	11.002
		11.005
IL-0059	ARCHER DANIELS MIDLAND COMPANY	70.999
IL-0060	ARCHER DANIELS MIDLAND COMPANY	11.002
		11.005
		90.019
IL-0061	MOBIL OIL CORPORATION	50.003
IL-0063	PQ CORPORATION	62.999
IL-0064	CHEWTON GLEN ENERGY	11.999
IL-0065	GENERAL MOTORS - ELECTROMOTIVE DIVISION	99.999
IL-0066	DEVRO-TEEPAK	63.999
IN-0076	OWENS-BROCKWAY GLASS CONTAINER INC.	90.016
IN-0077	STEEL DYNAMICS, INC.	81.006
IN-0078	WAUPACA FOUNDRY, INC.	81.004
LA-0112	AIR LIQUIDE AMERICA CORPORATION	11.005
		15.004
LA-0113	BASF CORPORATION	11.005
		15.004
LA-0114	CHEVRON CHEMICAL COMPANY	11.005
		42.009
LA-0115	SHELL CHEMICAL COMPANY	11.005
		15.002
		64.003
		64.999
MA-0021	MILLENNIUM POWER PARTNER, LP	15.007
MA-0022	BERKSHIRE POWER DEVELOPMENT, INC.	15.004
	zzc. inte i otten beveloi ment, into.	15.007
MA-0023	DIGHTON POWER ASSOCIATE, LP	15.007
WIA-UUZJ	DIGITION I OWEN AGGOODATE, EI	15.002
ME-0014	RUMFORD POWER ASSOCIATES	15.004
ME-0015	ANDROSCOGGIN ENERGY LIMITED	15.007
ME-0016	GORHAM ENERGY LIMITED PARTNERSHIP	15.007
ME-0017	MCCAINE FOOD INC	11.006
ME-0018	WESTBROOK POWER LLC	15.004

Figure 1. Control technology determinations received or updated since June 1998.

ID NUMBER	COMPANY NAME	PROCESS CODE(S)
ME-0019	CHAMPION INTERNATL CORP. & CHAMP. CLEAN	15.004
ME-0020	CASCO RAY ENERGY CO	15.004
MI-0242	CABOT CORP.	62.006
MI-0242	FAXE PAPER PIGMENTS	62.999
MI-0244	WYANDOTTE ENERGY	15.004
MN-0028	SILGAN CONTAINERS CORP - SAVAGE PLANT	41.004
MN-0031	3M COMPANY	41.999
MN-0032	BADGER FOUNDRY	81.004
MN-0033	POTLATCH CORPORATION	11.008
MN-0034	3M COMPANY, 3M HUTCHINSON TAPE MANUFACTU	41.999
MN-0035	LSP - COTTAGE GROVE, L.P.	11.004
		15.002
		15.007
MS-0035	WEYERHAEUSER COMPANY	30.000
MS-0036	CHOCTAW GENERATION LIMITED, PARTNERSHIP	11.003
MT-0008	CONTINENTAL LIME INC.	90.019
MT-0009	COLSTRIP ENERGY LIMITED PARTNERSHIP	11.999
MT-0010	MONTANA REFINING COMPANY	90.004
MT-0011	MONTANA REFINING COMPANY	11.005
MT-0012	CONTINENTAL LIME INC.	90.019
MT-0013	MONTANA REFINING COMPANY	50.007
		50.008
MT-0014	MONTANA REFINING COMPANY	50.003
ND-0016	AMERICAN CRYSTAL SUGAR COMPANY	11.002
ND-0017	MINN-DAK FARMERS COOPERATIVE	70.999
NJ-0021	MM HACKENSACK ENERGY, LLC.	15.999
NJ-0022	MANCHESTER RENEWABLE PWR CORP/LANDFILL E	15.999
NJ-0025	GRIFFIN PIPE PRODUCTS	81.999
NJ-0026	AMERICAN REF FUEL OF ESSEX COUNTY	21.001
NJ-0027	GENERAL MOTORS CORP (INLAND FISHER GUIDE	11.006
NJ-0028	INTERNATIONAL FLAVORS AND FRAGRANCES	11.005
NJ-0029	ALGONQUIN GAS TRANSMISSION COMPANY	15.006
NJ-0030	HOFFMAN-LA ROCHE, NUTLEY COGEN FACILITY	15.004
NJ-0031	UNIVERSITY OF MEDICINE & DENTISTRY OF NE	11.004
		15.004
NJ-0032	EDGEBORO DISPOSAL, INC.	21.999
NJ-0033	E.I. DUPONT DENEMOURS AND CO, INC.	21.999
NJ-0034	SAFETY KLEEN (ROLLINS) HAZARDOUS WASTE I	22.002
NM-0032	WILLIAMS FIELD SERVICES CO.	15.004
		50.002
NM-0033	WILLIAMS FIELD SERVICES CO.	15.004
		50.002
NM-0034	WILLIAMS FIELD SERVICES CO.	50.002
NM-0035	WILLIAMS FIELD SERVICES CO.	15.004
		50.002
NM-0036	WILLIAMS FIELD SERVICES CO.	15.004
		50.002
NM-0038	WILLIAMS FIELD SERVICES	50.002
NM-0039	TNP TECHN, LLC (FORMERLY TX-NM POWER CO.	15.004
NM-0040	WILLIAMS FIELD SERVICES	15.007
NY-0084	GUARDIAN INDUSTRIES CORPORATION	90.016
OH-0235	MILLER BREWING COMPANY	70.008

Figure 1. Control technology determinations received or updated since June 1998.

ID NUMBER	COMPANY NAME	PROCESS CODE(S)
OR-0011	HERMISTON GENERATING CO.	15.004
PA-0148	BLUE MOUNTAIN POWER, LP	15.004
PA-0152	PEI POWER	11.999
PA-0153	JOHNSON MATTHEY INC.	41.999
PA-0154	GENERAL ELECTRIC TRANSPORTATION SYSTEMS	15.002
RI-0018	TIVERTON POWER ASSOCIATES	15.004
SC-0048	PACIFIC MDF PRODUCTS, INC	41.006
TN-0054	PROCTOR AND GAMBLE MANUFACTURING COMPANY	11.006
TN-0060	WHELAND FOUNDRY A DIV. OF NORTH AMERICAN	81.004
UT-0053	DESERET GENERATION AND TRANSMISSION COMP	11.002
		90.011
		90.019
UT-0054	CONTINENTAL LIME INC CRICKET MTN. LIM	90.019
UT-0055	CONTINENTAL LIME INC CRICKET MTN. LIM	90.019
UT-0056	CONTINENTAL LIME INC CRICKET MTN. LIM	90.019
UT-0057	CONTINENTAL LIME INC CRICKET MTN. LIM	90.019
UT-0058	HILL AIR FORCE BASE	41.001
VA-0240	CHAPARRAL STEEL COMPANY	81.006
		81.999
VA-0241	ROANOKE ELECTRIC STEEL CORPORATION	81.006
		81.007
WA-0276	SCOTT PAPER COMPANY	11.008
WA-0280	EEX POWER SYSTEMS, ENCOGEN NW COGENERATI	15.007
WA-0282	ARCO PETROLEUM PRODUCTS CO	50.003
WI-0084	QUAD/GRAPHICS - SUSSEX	41.022
WY-0024	LOUISIANA LAND & EXPLORATION COLOST CA	50.006
WY-0028	FMC WY CORPORATION-GREEN RIVER SODA ASH	11.005
		90.017
		90.019
WY-0031	GENERAL CHEM SODA ASH PARTNERS - GEN CHE	90.017
WY-0032	QUESTAR PIPELINE CORP RK SPRINGS COMP	15.004
WY-0033	WESTERN GAS RESOURCES, INC. HILIGHT GAS	15.004
WY-0034	SOLVAY SODA ASH JOINT VENTURE TRONA MINE	11.005
WY-0035	TEXASGULF SODA ASH PLANT	90.017 11.005
VV 1-0033	TEXASGULF SODA ASTI FLAINT	62.018
		90.017
WY-0036	OCI, WYOMING L.POCI SODA ASH PLANT	90.017
WY-0038	WOLD TRONA CO.	62.018
*** 0000	WOLD THOM CO.	90.017
WY-0039	TWO ELK GENERATION PARTNERS, LIMITED PAR	11.002
	· · · · · · · · · · · · · · · · · · ·	15.004
		90.011
		90.019
		90.999
WY-0040	CHEVRON USA - PAINTER CENTRAL STATION	15.004
WY-0041	LOUISIANA LAND AND EXPLORATION COMPANY-L	11.005
		50.006
WY-0042	LOUISIANA LAND AND EXPLORATION COMPANY-L	11.005
		50.006
WY-0043	SF PHOSPHATE LIMITED COMPANY	11.005
WY-0044	MOUNTAIN CEMENT COMPANY-LARAMIE FACILITY	90.028

Figure 1. Control technology determinations received or updated since June 1998.

ID NUMBER	COMPANY NAME	PROCESS CODE(S)
WY-0046	BLACK HILLS POWER AND LIGHT COMPANY-NEIL	11.002
		11.006
		90.011
		90.019
		90.999
WY-0047	ENCOAL CORPORATION-ENCOAL NORTH ROCHELLE	11.002
		90.010
		90.011
		90.019
		90.999
WY-0048	WYGEN, INC WYGEN UNIT ONE	11.002
	·	90.011
		90.999
WY-0049	WESTERN GAS RESOURCES - HILIGHT GAS PLAN	15.004
WY-0050	SF PHOSPHATES LIMITED CO - FERTILIZER CO	61.009
WY-0051	UNION PACIFIC RESOURCES - PATRICK DRAW G	11.005
		15.004
WY-0052	UNION PACIFIC RESOURCES - PATRICK DRAW G	11.005
3002		15.004

Figure 1. Control technology determinations received or updated since June 1998.

REPORT FORMAT

This RBLC report was prepared to provide basic control technology information as well as to facilitate quick scans of company/facility name and process type information. It consists of three major parts presented in Appendices F, G, and H:

- Appendix F a summary listing of processes for all determinations entered or updated since June 1994, sorted by facility name. Information includes the name of the company, permit date, process type code, process description, and an RBLC ID number as a reference for additional information.
- Appendix G a summary listing of permitting agency contacts for all determinations entered or updated since June 1994, sorted by process type code. Information includes the name of the company, permit date, basic Agency contact information, and an RBLC ID number as a reference for additional information.
- Appendix H a detailed listing, sorted by RBLC ID number, of all new individual facility information and updates to previously entered information submitted to the Clearinghouse since the June 1998 publication.

A brief description of each table follows:

Appendix F - Index of Control Technology Determinations

Appendix F summarizes all RACT/BACT/LAER determinations in the Clearinghouse by facility name. Use Appendix F for scanning the control technology determinations entered for a particular company and the processes covered by the determination. Appendix F includes the date the permit was issued (estimated or actual), process type code and description, and a RBLC ID number (which indicates the state where each facility is located) for locating the more detailed facility information contained in Appendix H. Appendix F includes a notation to indicate whether a particular determination is listed in the 1995, 1996, 1997, or 1998 supplement. If the notation "1995", "1996", "1997", or "1998" appears in front of the company name, then a detailed listing of that determination will not appear in this document; it may be found in the 1995, 1996, 1997, or 1998 supplement documents. If the notation is blank, detailed information on the facility can be found in this supplement.

Appendix G - Control Technology Determinations by Process Type

Appendix G summarizes the RACT/BACT/LAER determinations by process type. A complete listing of all process type codes is contained in Appendix B. The user should familiarize himself/herself with this listing in order to use Appendix G effectively. Appendix G includes the name of the company, the state where the source is located, the agency issuing the permit, name of person to contact within the agency for additional information, and a telephone number. Again, each entry in Appendix G has a RBLC ID number for locating the more detailed facility information contained in Appendix H. Appendix G includes a notation to indicate whether a particular determination is listed in the 1995, 1996, 1997, or 1998 supplement. If the notation is blank, detailed information on the facility can be found in this supplement.

Appendix H - Detailed Source Listings

In addition to Appendices F and G, a detailed listing of all new source data is provided in Appendix H. New determinations are initially entered into the Transient data base and, when approved by the RBLC staff, later promoted to the Current data base. If new determinations contain incomplete or erroneous data, and the RBLC staff cannot resolve these problems, the determinations may be deleted. This assures that all data promoted to the Current data base is accurate. However, there is the potential that some determinations listed in this supplement will be removed from the RBLC data base at a future date.

Appendix H has two parts: Part A and Part B. Only Part A is included in this supplement. Part A lists details about control technologies and emission limits for processes and pollutants. Part B details scheduling information related to permitting, as well as costs associated with control technology used for pollutants. Appendix H is intended to provide the maximum manageable amount of technical and administrative information without duplicating a completed permit application.

Part A consists of:

- A RBLC ID number assigned by the Clearinghouse (consists of state abbreviation and a sequence number)
- the date the determination was inserted into the Clearinghouse
- the company name, plus street address, city, county, state, ZIP Code
- the date the permit was issued (estimated or actual)

- the state permit number (or EPA Regional Office file number)
- the date operation started (estimated or actual)
- the agency issuing the permit
- the contact person within the agency who is familiar with the control technology information
- agency telephone number for the contact person
- Aerometric Information Retrieval System identifier (AIRS ID)
- Standard Industrial Classification (SIC) code
- description of the process or processes being permitted, throughput capacity and corresponding units
- process type code
- Standard Source Classification (SCC) code
- pollutant name and emission limitations applicable to each permitted process
- standardized limits for pollutants
- basis for pollutant limit (RACT, BACT, LAER, etc.)
- Chemical Abstract Service (CAS) number
- pollution reduction method indicator that identifies whether the facility uses pollution prevention, add-on equipment, or both methods to meet the permitted emission limits; or whether no controls are feasible
- pollution reduction method description that provides details about the specific pollution prevention techniques and add-on equipment used
- percent efficiency for the control devices
- selected control option ranking
- notes on the determination

In some cases, a second emission limit is applicable to a given process/pollutant. In those cases, this second emission limitation is referred to in the RBLC as the alternate limit. Because the space available in Appendix H is limited, alternate limits are not included in the Appendix.

Abbreviations for processes and emission limitations have been developed. A complete list of these abbreviations is contained in Appendix A. Some comments have been received

regarding the use of these abbreviations. Every effort has been made to use a standard set of abbreviations. In some cases, however, this was not possible. The control agencies are encouraged to review the abbreviations in Appendix A and submit any suggested revisions. The abbreviations are periodically reviewed and updated accordingly.

Part B has not been included in Appendix H because space is limited and minimal data has been entered in the date and cost fields. However, Part B is available in the RBLC BBS data base. Part B includes some basic information about the determination (RBLC ID, date inserted in the Clearinghouse, company name and address, permit number, permitting agency, and contact information) that also appears in Part A plus the following additional data:

- the date the application for permit was received (estimated or actual)
- the date the permit was issued (estimated or actual)
- the date operation started (estimated or actual)
- the date compliance was verified (estimated or actual)
- process name, throughput capacity and corresponding units
- whether or not compliance was verified and the compliance method used (stack test, inspection, calculation, other method)
- pollutant and associated costs of control system (capital costs, annual operation and maintenance costs, annualized costs)
- cost effectiveness of control system in dollars per ton
- year in which dollar values are expressed
- whether or not costs were verified by the permitting agency

IMPROVEMENTS TO THE SYSTEM

The RBLC has operated on the Office of Air Quality Planning and Standards Technology Transfer Network (OAQPS TTN) bulletin board system (BBS) since October 1992. As the OAQPS TTN began migrating to the World Wide Web (WWW), the RBLC staff focused its efforts on allowing data base searches directly from the WWW. Today, users of the web version of the Clearinghouse can search on any of 23 different components, and users can perform word searches on most of the searchable components. Searchable components have been designated

as "required" fields for new determinations. This information must be provided on new information from submitting agencies in order to ensure that searches produce valid results.

Our objective as we moved from the text-based searching on the BBS to the more user-friendly environment of dynamic web pages was to maintain the search and reporting functionality of the RBLC BBS. The graphical environment of the WWW supports a simplified search procedure. Users select a data base of interest (see below) and one or more searchable properties from drop-down lists displayed in their web browser. They fill in text boxes with the value they are trying to match, and then click a submit button to execute the query. The query finds all determinations in the RBLC data base that match the specified criteria and displays the results for viewing in the browser. The familiar selection of one or more output formats is provided.

Permit data in the Clearinghouse has been segmented into three separate data bases. The current data base (also known as the permanent data base) contains completed RBLC determinations entered since June 1991. These determinations have been reviewed by RBLC staff to ensure that the information is complete and correct. The second data base is the transient data base, which provides a work space on the BBS for users to enter and update determinations. RBLC staff regularly reviews the transient data base and promotes accurate and complete determinations into the permanent data base. (Determinations that remain in the Transient data base are uploaded to the web quarterly and can be found on the web in the "Determinations under review data base."). The third data base, the historical data base, contains completed RBLC determinations entered before June 1991. The historical data base is further segmented into multiple data bases based on when the information was submitted. Refer to the on-line screens for the exact submittal dates contained in each portion of the historical data base. This organization of the data bases was designed to ensure the integrity of the RBLC data and to maintain a reasonable response time for users accessing the system.

The RBLC also maintains a data base of federal, state, and local regulations, which includes summaries of federal regulations enacted in response to the CAAA. These rules include Maximum Achievable Control Technology (MACT) standards, National Emission Standards for Hazardous Air Pollutants (NESHAP), New Source Performance Standards (NSPS), and Control Techniques Guideline (CTG) documents that specify requirements for Reasonably Available

Control Technology (RACT). The regulation data base is available on the WWW and offers options that allow you to scan or query the rules data. The query option brings the power of user-defined queries to the complex details of air pollutant emissions regulations. Using the same user-friendly browser interface as the RBLC's permit data base, users can build a query to locate pertinent regulations for a particular pollutant or process or for a broad array of other criteria. You can also bypass the query step and go directly to viewing a list of all the federal and state regulations. This data base also offers a data entry module on the BBS for on-line inputting and editing of regulations by responsible agencies.

The RBLC has an on-going effort to improve the functionality of the permit and regulation data bases and to make this information easier to retrieve. The web query capabilities are the most recent improvement. Another such feature in the Clearinghouse is the Statistical Ranking download report format that presents emission limits sorted from most to least stringent. This ordering is useful for comparing emissions for a single pollutant from a single process. The emission limits must be expressed in the same units. Standard units for emission limits have been established in the data base to allow meaningful comparisons among many diverse control technology determinations. The Statistical Ranking report is based on these values. Sample reports are available on the web for viewing on-line or for downloading to your local PC. You may also use the BBS query module to generate these reports.

For users who prefer to have the RBLC at their fingertips, the Desktop RBLC is an option. This stand-alone, PC-based program gives users access to the data base without requiring an Internet or dial-up connection to the TTN. It can be downloaded from the RBLC Software section of the CATC Product Information on the web and installed to run on a user's PC. The Desktop RBLC includes the same search and browse capabilities that are in the BBS versions. Data bases for the Desktop RBLC are updated every quarter, and users can download them to view recent submittals to the Clearinghouse.

Other improvements and revisions to the system will continue to be considered as a result of contacts with various state and local agencies. Soon, we expect to allow authorized users to enter and update determinations via the web. These improvements and revisions will be evaluated and made based on the recommendations of the state and local agencies that are

entering or submitting determinations to the Clearinghouse. Watch the RBLC web page for more details on new capabilities of the RBLC Web.

All inquiries concerning RBLC and information contained in the data base should be directed to:

RACT/BACT/LAER Clearinghouse (MD-12) Information Transfer & Program Integration Division U.S. Environmental Protection Agency Research Triangle Park, North Carolina 27711 Phone: (919) 541-2736

OR

The Clean Air Technology Center Information Line (formerly The Control Technology Center HOTLINE) (919) 541-0800, FAX (919) 541-0242 catcmail@epamail.epa.gov

PROCEDURES FOR FUTURE SUBMISSIONS TO THE CLEARINGHOUSE¹

The RBLC is intended to be a dynamic program. Periodic updates and new listings are welcomed. Submissions by state and local control agencies are entirely voluntary except for LAER determinations, which must be submitted to the Clearinghouse. Without submittals, however, the viability and usefulness of the program are jeopardized. Agencies are encouraged to make formal submittals at any time by using the on-line submittal procedures.

The Clearinghouse supports a variety of data submittal procedures. The BBS version of the RBLC allows designated users in regional, state, and local air pollution control agencies direct update capability. A stand-alone version is available so that designated users can enter

¹The instructions and text contained in this section are based on the current state of the RBLC and it's data bases. The RBLC is currently going through a major platform switch from the TTN BBS formats to a Web based format. This switch is expected to be completed in the Fall of 1999. When this effort is completed the old RBLC BBS will be shut down and the Web based RBLC will be the primary data base. In addition to the platform changes, the RBLC is adding several data fields to accommodate New Source Review specific data. These changes will be completed this Fall and will render the RBLC Stand-alone Editor and RBLC Desktop viewer programs obsolete. We will make every effort to keep users informed as to the status of these major changes. If you have specific questions please call the CATC Hotline at (919) 541-0800.

NEW determinations on their local PCS, without an Internet connection or a modem/direct dial and its associated cost. After completing data entry, users forward their determinations to the RBLC for inclusion in the on-line data base. With either on-line or stand-alone input, data entered by designated users is placed into a searchable transient data base on the BBS where quality assurance procedures will be performed. Once the data is checked, it will be promoted into the web and BBS versions of the current RBLC data base. Designated users can access the BBS to make changes to current entries in the Clearinghouse. (The stand-alone editor can not be used to edit determinations previously entered into the on-line RBLC data base). For those who wish to make hardcopy (paper) submittals, the submittal form and instructions for data submittal are in Appendix E.

Submittals can be made as soon as the permit application is received. It is not necessary to wait until the final permit is issued. The initial on-line submittal must, however, list all processes. (Note, also, that each process must include at least one pollutant.) The RBLC allows dates to be flagged as either estimated or actual; so that it is not necessary to know the exact schedule for the permitting and operation of the facility. Subsequent to the initial submittal, agencies may use the RBLC to update the status of the application. As with any automated information system, the RBLC data base offers flexible, user-defined queries and a variety of report formats. Needed information can be quickly accessed in whatever level of detail is appropriate.

The preferred submittal methods are on-line input via the BBS or electronic submittal of stand-alone input. In order to facilitate the input or submission of determinations and corrections, a full page copy of the input form and a set of instructions for completing the form are provided in Appendix E of this report. The form in Appendix E can be reproduced and used to prepare or submit new determinations and/or to update existing information. All questions should be directed as indicated above.

PROCEDURES FOR ACCESSING THE CLEARINGHOUSE ON THE INTERNET AND OAQPS TTN BBS

The RBLC is accessible to anyone with a personal computer that can communicate with outside networks. For access via the Internet, you will need an Internet connection and a web

browser. If you wish to dial in to the RBLC BBS, you will need a modem, phone line, and communications software. You will also need to register for the TTN BBS.

For WWW access to the RBLC, point your browser to the following address:

www.epa.gov/ttn/catc/

Then click on the RBLC icon to get to the data base.

The following Internet addresses are also available:

Telnet ttnbbs.rtpnc.epa.gov FTP ttnftp.rtpnc.epa.gov

The World Wide Web site lets you access most of the information on the TTN with your browser. However, to edit determinations in the RBLC, you still need to access the TTN BBS via the Telnet site. Our web page includes a hyperlink to simplify this process. The Telnet site allows users to utilize traditional BBS functions, such as editing the RBLC data base. Remember, you must be a registered user of the TTN, and you will also need Telnet client software. The FTP site allows users of FTP clients and most web browsers to transfer BBS files, including search results from RBLC BBS query and browse functions, easily over the Internet.

Dial in access to the TTN BBS is available at (919) 541-5742 for modems up to 14,400 bps. Set your communications parameters as follows:

8 data bits 1 stop bit No parity VT100, VT102, or ANSI terminal emulation

Once connected to the OAQPS TTN BBS, enter your logon name and password. (A new user must complete an on-line registration questionnaire before being allowed to fully access the BBS). From the TTN BBS top menu, choose the Technical Areas menu option, and then select RBLC from the option list to access the RBLC Main menu. You can select any menu item by pressing the appropriate letter. Choose 'B' to access the RBLC data base; choose 'T' for the regulations data base.

If you have any problems accessing the OAQPS TTN, call the voice help line at (919) 541-5384.

APPENDIX A ABBREVIATIONS FOR PROCESSES, EMISSION LIMITS, AND POLLUTANTS

ABBREVIATIONS FOR PROCESSES AND DESCRIPTORS

<u>ABBREVIATION</u> <u>PROCESS OR DESCRIPTOR</u>

ADD additive
AL aluminum
AM American
ASSOC association
ATMOS atmospheric
CALC catalytic

CEM continuous emission monitoring

eastern

CO company COLL collection COOP cooperative **CORP** corporation **DECARB** decarbonization DESULF desulfurization DISTIL distillation **DISTN** distribution DIV division

EA each
EFF efficiency
ELECT electric
EMISS emissions
ENVIRON OR ENV environmental

Е

ESP electrostatic precipitator

FAC facility

FCC fluid catalytic cracking
FCCU fluid catalytic cracking unit

FGR flue gas recirculation

FURN furnace
GEN generator
HAND handling

HVLP high-volume, low pressure (spray guns)

<u>ABBREVIATION</u> <u>PROCESS OR DESCRIPTOR</u>

I.C. internal combustion

INCIN incinerator **INDEP** independent **INTERNAT** international LAB laboratory LDOUT loadout LIQ liquid LT light MATL material

MFG manufacturing
MISC miscellaneous
MODIF modification

NAT natural NATL national

POLL pollutant/pollution

PREP preparation **PROD** production **PWR** power **REC** recovery reciprocating RECIP RECLAM reclamation REFIG refrigeration REFIN refinery regular REG

REGEN regenerator
RESID residual
ROT rotary

SCR selective catalytic reduction

SCRUB scrubber
SECOND secondary
SHIP shipping

SNCR selective non-catalytic reduction

SOLN solution

<u>ABBREVIATION</u> <u>PROCESS OR DESCRIPTOR</u>

STOR storage

SUP supplementary

SYS system

TRANS transmission
UNIV university
VAC vacuum
VERT vertical

ABBREVIATIONS FOR EMISSION LIMIT UNITS

<u>ABBREVIATION</u> <u>EMISSION LIMIT UNIT</u>

ACF actual cubic feet

ACFM actual cubic feet per minute

ACS applied coating solids

ADP air dried pulp

AV average BBL barrels

BHP brake horsepower
BLS black liquor solids
BPSD barrels per stream day
BTU British thermal units

CF cubic feet

CFM cubic feet per minute

CU YD cubic yard

D day
D FEED dry feed

DACF dry actual cubic feet

DIST distillate

DSCF dry standard cubic feet

 $\begin{array}{cc} F & & \text{feet} \\ G & & \text{gram} \end{array}$

G/B-HP-H grams per brake horsepower-hour

G/O gas/oil

GAL/M gallons per minute

GR grains H hour

HP horsepower

J joule
KG kilogram
KW kilowatt
LB pound
LT long ton

<u>ABBREVIATION</u> <u>EMISSION LIMIT UNIT</u>

M thousand (10³)

MG/L milligram per liter

MM million (10^6)

MO month
MW megawatt
N natural
NG nanogram
OPAC opacity

PPM parts per million
PPH parts per hundred
RDF refuse derived fuel

RESID residual

SB subbituminous
SCF standard cubic feet

SCFD standard cubic feet per day
SCFM standard cubic feet per minute

SEC second SQF square feet

T ton

TPY tons per year (found in notes of determinations)

VOL volume WKS weeks YR year

ABBREVIATIONS FOR POLLUTANTS

<u>ABBREVIATION</u> <u>POLLUTANT</u>

AG silver

AN acrylonitrile

AR argon
AS arsenic
BA barium

BAP benzo(a)pyrene

BE beryllium
CA calcium
CD cadmium

CDD chlorodibenzodioxins
CDF chlorodibenzofurans

CL chlorine

CL2 chlorine (gas)

CL2/OCL chlorine and oxychlorine

CLO2 chlorine dioxide
CO carbon monoxide
CO2 carbon dioxide
COS carbonyl sulfide

CR chromium

CRVI hexavalent chrome

CS cesium CU copper

DCB 1,4-dichloro-2-butene

ETH ethylene

ETO ethylene oxide

F fluorine

FSP fine suspended particulates

HBR hydrogen bromide
HC hydrocarbons
HCL hydrochloric acid

HCN hydrogen cyanide

<u>ABBREVIATION</u> <u>POLLUTANT</u>

HDM hexamethylene diisocyanate monomer

HF hydrogen fluoride

HG mercury

HHD homopolymer of HDM (see above)

H2O water

H2S hydrogen sulfide H2SO4 sulfuric acid

MA maleic anhydride

MC ACETATE methyl cellusolve acetate

MEK methyl ethyl ketone

MG magnesium

MI KETONE methyl isobutyl ketone

MMH methyl hydrazine

MN manganese MO molybdenum

NAOH sodium hydroxide

NA2SO4 salt cake
NH3 ammonia
NH4 ammonium

NH4CL ammonium chloride

NI nickel

NMHC nonmethane hydrocarbons NMOC nonmethane organic carbon

NOX nitrogen oxide NO2 nitrogen dioxide N2O nitrous oxide

PAH polynuclear aromatic hydrocarbons

PB lead

PCB polychlorinated biphenyls

PCDF polychlorinated dibenzo furans
PCNB pentochloronitrobenzene herbicide

PM, PM10 particulate matter

POCL3 phosphorous oxychloride

<u>ABBREVIATION</u> <u>POLLUTANT</u>

POHC principle organic hazardous constituents

RHC reactive hydrocarbons

ROC reactive organic compounds

ROG reactive organic gases

RSC reduced sulfur compounds

S sulfur
SB antimony
SE selenium

SN tin

SO2 sulfur dioxide SO3 sulfur trioxide

TCDD 2,3,7,8-tetrachlorodibenzo-P-dioxin

TCDF tetrachlorodibenzo furan

TCE trichloroethylene
TC-ETHANE 1,1,1-trichloroethane
TICL4 titanium tetrachloride

TMT tetramethyl tin
TRS total reduced sulfur

U uranium

UF4 uranium tetrafluoride

V vanadium VC vinyl chloride

VCM vinyl chloride monomer

VE visible emissions

VOC volatile organic compounds

ZN zinc

ZRSO4 zirconium sulfate

APPENDIX B DETAILED LISTING OF PROCESS TYPE CODES

PROCESS TYPE CODE LIST

No. CATEGORY

10.000 COMBUSTION

11.000 EXTERNAL COMBUSTION

- 11.001 Bagasses Combustion
- 11.002 Coal Combustion
- 11.006 Fuel Oil Combustion
- 11.003 Lignite Combustion
- 11.004 Multiple Fuels Combustion
- 11.005 Natural Gas Combustion
- 11.007 Waste Oil Combustion
- 11.008 Wood/Wood Waste Combustion
- 11.999 Other External Combustion Sources

15.000 INTERNAL COMBUSTION

- 15.001 Aviation Fuels
- 15.002 Diesel Fuel
- 15.006 Fuel Oil
- 15.003 Gasoline
- 15.007 Multiple Fuels
- 15.004 Natural Gas
- 15.005 Process Gas
- 15.999 Other Internal Combustion Sources

20.000 WASTE DISPOSAL

21.000 MUNICIPAL WASTE

- 21.001 Municipal Waste Combustors/Incinerators
- 21.002 Municipal Waste Landfills
- 21.003 Publicly Owned Treatment Works (POTW) Emissions (except 21.004)
- 21.004 Sewage Sludge Incineration
- 21.999 Other Municipal Waste Processing/Disposal Facilities

22.000 HAZARDOUS WASTE

- 22.007 Asbestos Demolition, Renovation, and Disposal
- 22.001 Benzene Waste Treatment
- 22.006 Contaminated Soil Treatment
- 22.002 Hazardous Waste Incineration
- 22.003 Hazardous Waste Landfills
- 22.004 Site Remediation
- 22.005 Treatment, Storage and Disposal Facilities (TSDF) (except 22.002, 22.003 & 22.006)
- 22.999 Other Hazardous Waste Processing/Disposal Facilities

29.000 OTHER WASTE DISPOSAL (except 21 & 22)

- 29.001 Automobile Body Shredding/Incineration
- 29.002 Industrial Wastewater/Contaminated Water Treatment
- 29.003 Industrial Landfills
- 29.004 Medical/Infectious Waste Incineration
- 29.999 Other Waste Disposal Sources

30.000 WOOD PRODUCTS INDUSTRY

- 30.001 Charcoal
- 30.002 Kraft Pulp Mills
- 30.003 Plywood and Veneer Operations
- 30.004 Pulp and Paper Production other than Kraft
- 30.005 Reconstituted Panelboard Plants (waferboard, particleboard, etc.)
- 30.006 Wood Treatment
- 30.007 Woodworking
- 30.999 Other Wood Products Industry Sources

40.000 ORGANIC EVAPORATIVE LOSSES

41.000 SURFACE COATING/PRINTING/GRAPHIC ARTS

- 41.001 Aerospace Surface Coating
- 41.002 Automobiles and Trucks Surface Coating (OEM)
- 41.003 Automotive Refinishing
- 41.004 Can Surface Coating
- 41.005 Fabric Coating/Printing/Dyeing (except 41.017)
- 41.006 Flatwood Paneling Surface Coating

- 41.007 Flexible Vinyl & Urethane Coating/Printing
- 41.008 Large Appliance Surface Coating
- 41.026 Leather Surface Coating
- 41.009 Magnetic Tape Surface Coating
- 41.010 Magnetic Wire Surface Coating
- 41.011 Metal Coil Surface Coating
- 41.012 Metal Furniture Surface Coating
- 41.013 Miscellaneous Metal Parts and Products Surface Coating
- 41.014 Paper, Plastic & Foil Web Surface Coating (except 41.007 & 41.018)
- 41.015 Plastic Parts for Business Machines Surface Coating
- 41.016 Plastic Parts & Products Surface Coating (except 41.015)
- 41.017 Polymeric Coating of Fabrics
- 41.018 Pressure Sensitive Tapes and Labels Coating
- 41.019 Printing Forms
- 41.020 Printing News Print
- 41.021 Printing Packaging
- 41.022 Printing Publication
- 41.023 Printing/Publication (except 41.007 & 41.019-022)
- 41.024 Ship Building & Repair Surface Coating
- 41.025 Wood Products/Furniture Surface Coating (except 41.006)
- 41.999 Other Surface Coating/Printing/Graphic Arts Sources

42.000 LIQUID MARKETING (PETROLEUM PRODUCTS, GASOLINE, VOL)

- 42.001 Gasoline Bulk Plants
- 42.002 Gasoline Bulk Terminals
- 42.003 Gasoline Marketing (except 42.001 & 42.002)
- 42.004 Petroleum Liquid Marketing (except 42.001-003 & 42.005-006)
- 42.005 Petroleum Liquid Storage in Fixed Roof Tanks
- 42.006 Petroleum Liquid Storage in Floating Roof Tanks
- 42.009 Volatile Organic Liquid Storage
- 42.010 Volatile Organic Liquid Marketing (except 42.009)
- 42.999 Other Liquid Marketing Sources

49.000 ORGANIC EVAPORATIVE LOSSES (except 41 & 42)

- 49.001 Aerosol Can Filling
- 49.012 Architectural & Industrial Maintenance (AIM) Coatings
- 49.013 Automobile Refinish Coatings
- 49.011 Consumer Products
- 49.002 Dry Cleaning PERC/Chlorinated Solvents
- 49.003 Dry Cleaning Petroleum Solvents
- 49.004 Fiberglass Boat Manufacturing

- 49.005 Fiberglass/Reinforced Polymer Products Manufacturing (except 49.004)
- 49.006 Halogenated Solvent Cleaners
- 49.007 Ink Manufacturing
- 49.008 Organic Solvent Cleaning & Degreasing (except 49.006)
- 49.009 Paint/Coating/Adhesives Manufacturing
- 49.010 Paint Stripping
- 49.999 Other Organic Evaporative Loss Sources

50.000 PETROLEUM/NATURAL GAS PRODUCTION AND REFINING

- 50.001 Oil and Gas Field Services
- 50.002 Natural Gas/Gasoline Processing Plants
- 50.003 Petroleum Refining Conversion Processes (cracking, CO boilers, reforming, alkylation, polymerization, isomerization, coking)
- 50.007 Petroleum Refining Equipment Leaks/Fugitive Emissions
- 50.004 Petroleum Refining Feedstock (blending, loading and unloading)
- 50.008 Petroleum Refining Flares and Incinerators (except acid gas/sulfur recovery unit incinerators 50.006)
- 50.005 Petroleum Refining Separation Processes (distillation and light ends recovery)
- 50.006 Petroleum Refining Treating Processes (hydrodesulfurization, hydrotreating, chemical sweetening, acid gas removal, deasphalting, sulfur recovery units, acid gas/sulfur recovery unit incinerators)
- 50.009 Petroleum Refining Wastewater and Wastewater Treatment
- 50.010 Shale Processing
- 50.999 Other Petroleum/Natural Gas Production & Refining Sources (except 50.001-010 and 42.000 Liquid Marketing

60.000 CHEMICALS MANUFACTURING

61.000 AGRICULTURAL CHEMICALS MANUFACTURING

- 61.001 2,4-D Salts and Esters Production
- 61.002 4-Chloro-2-Methylphenoxyacetic Acid Production
- 61.003 4,6-Dinitro-o-Cresol Production
- 61.004 Captafol (tm) Production
- 61.005 Captan (tm) Production
- 61.006 Chloroneb (tm) Production
- 61.007 Chlorthalonil (tm) Production
- 61.008 Dacthal (tm) Production
- 61.012 Fertilizer Production (except 61.009)
- 61.009 Phosphate Fertilizers Production
- 61.010 Sodium Pentachlorophenate Production

61.011 Tordon Acid Production

61.999 Other Agricultural Chemical Manufacturing Sources

62.000 INORGANIC CHEMICALS MANUFACTURING

- 62.001 Ammonium Sulfate Production Caprolactam By-Product Plants
- 62.002 Antimony Oxides Manufacturing
- 62.003 Chlorine Production
- 62.016 Chloroalkali Production
- 62.004 Chromium Chemicals Manufacturing
- 62.005 Cyanuric Chemicals Manufacturing
- 62.006 Fume Silica Production
- 62.007 Hydrochloric Acid Production
- 62.017 Hydrofluoric Acid Production
- 62.008 Hydrogen Cyanide Production
- 62.009 Hydrogen Fluoride Production
- 62.020 Inorganic Liquid/Gas Storage & Handling
- 62.014 Nitric Acid Plants
- 62.010 Phosphoric Acid Manufacturing
- 62.011 Quaternary Ammonium Compounds Production
- 62.018 Sodium Carbonate Production
- 62.012 Sodium Cyanide Production
- 62.015 Sulfuric Acid Plants
- 62.019 Sulfur Recovery (except 50.006)
- 62.013 Uranium Hexafluoride Production
- 62.999 Other Inorganic Chemical Manufacturing Sources

63.000 POLYMER AND RESIN PRODUCTION

- 63.001 Acetal Resins Production
- 63.002 Acrylonitrile-Butadiene-Styrene Production
- 63.003 Alkyd Resins Production
- 63.004 Amino Resins Production
- 63.005 Butadiene-Furfural Cotrimer (R-11)
- 63.006 Butyl Rubber Production
- 63.007 Carboxymethylcellulose Production
- 63.008 Cellophane Production
- 63.009 Cellulose Ethers Production
- 63.010 Epichlorohydrin Elastomers Production
- 63.011 Epoxy Resins Production
- 63.012 Ethylene-propylene Rubber Production
- 63.013 Flexible Polyurethane Foam Production
- 63.014 Hypalon (tm) Production

- 63.015 Maleic Copolymers Production
- 63.016 Methylcellulose Production
- 63.017 Methyl Methacrylate-Acrylonitrile-Butadiene-Styrene Production
- 63.018 Methyl Methacrylate-Butadiene-Styrene Terpolymers Production
- 63.019 Neoprene Production
- 63.020 Nitrile Butadiene Rubber Production
- 63.021 Non-Nylon Polyamides Production
- 63.022 Nylon 6 Production
- 63.023 Phenolic Resins Production
- 63.024 Polybutadiene Rubber Production
- 63.025 Polycarbonates Production
- 63.026 Polyester Resins Production
- 63.027 Polyether Polyols Production
- 63.028 Polyethylene Terephthalate Production
- 63.029 Polymerized Vinylidene Production
- 63.030 Polymethyl Methacrylate Resins Production
- 63.031 Polystyrene Production
- 63.032 Polysulfide Rubber Production
- 63.033 Polyvinyl Acetate Emulsions Production
- 63.034 Polyvinyl Alcohol Production
- 63.035 Polyvinyl Butyral Production
- 63.036 Polyvinyl Chloride and Copolymers Production
- 63.037 Reinforced Plastic Composites Production
- 63.038 Styrene-Acrylonitrile Production
- 63.039 Styrene Butadiene Rubber and Latex Production
- 63.999 Other Polymer and Resin Manufacturing Sources

64.000 SYNTHETIC ORGANIC CHEMICAL MANUFACTURING INDUSTRY (SOCMI)

- 64.001 Batch Reaction Vessels (except 69.011)
- 64.002 Equipment Leaks (valves, compressors, pumps, etc.)
- 64.003 Processes Vents (emissions from air oxidation, distillation, and other reaction vessels)
- 64.004 Storage Tanks (SOCMI Chemicals (loading/unloading, filling, etc.)
- 64.005 Transfer of SOCMI Chemicals (loading/unloading, filling, etc.)
- 64.006 Wastewater Collection & Treatment
- 64.999 Other SOCMI Industry Sources

65.000 SYNTHETIC FIBERS PRODUCTION

- 65.001 Acrylic Fibers/Modacrylic Fibers Production
- 65.002 Rayon Production
- 65.003 Spandex Production

69.000 CHEMICAL MANUFACTURING (except 61, 62, 63, 64 & 65)

- 69.001 Benzyltrimethylammonium Chloride Facilities
- 69.002 Butadiene Dimers Production
- 69.015 Carbon Black Manufacturing
- 69.003 Carbonyl Sulfide Production
- 69.004 Chelating Agents Production
- 69.005 Chlorinated Paraffins Production
- 69.006 Dodecanedioic Acid Production
- 69.007 Ethylidene Norbornene Production
- 69.008 Explosives Production
- 69.009 Hydrazine Production
- 69.010 OBPA/1,3-Diisocyanate Production
- 69.011 Pharmaceuticals Production
- 69.012 Photographic Chemicals Production
- 69.013 Phthalate Plasticizers Production
- 69.017 Propellant Manufacturing & Production
- 69.014 Rubber Chemicals Manufacturing
- 69.016 Soap & Detergent Manufacturing
- 69.999 Other Chemical Manufacturing Sources

70.000 FOOD AND AGRICULTURAL PRODUCTS (also see 61 - AGRICULTURAL CHEMICALS)

- 70.016 Alcohol Fuel Production
- 70.008 Alcoholic Beverages Production
- 70.001 Alfalfa Dehydrating
- 70.002 Baker's Yeast Manufacturing
- 70.003 Bread Bakeries
- 70.004 Cellulose Food Casing Manufacturing
- 70.005 Coffee Roasting
- 70.006 Cotton Ginning
- 70.007 Feed and Grain Handling, Storage & Processing (including Mills and Elevators)
- 70.009 Fish Processing
- 70.010 Fruit and Vegetable Processing
- 70.011 Meat Smokehouses
- 70.012 Roasting (except 70.005)
- 70.013 Starch Manufacturing
- 70.014 Sugar Cane Processing
- 70.015 Vegetable Oil Production
- 70.999 Other Food and Agricultural Products Sources

80.000 METALLURGICAL INDUSTRY

81.000 FERROUS METALS INDUSTRY

- 81.001 Coke By-product Plants
- 81.002 Coke Production (except 81.001)
- 81.003 Ferroalloy Production
- 81.004 Iron Foundries
- 81.005 Stainless Steel/Specialty Steel Manufacturing
- 81.006 Steel Foundries
- 81.007 Steel Manufacturing (except 81.005 & 81.006)
- 81.008 Steel Pickling HCL Process
- 81.999 Other Ferrous Metals Industry Sources

82.000 NONFERROUS METALS INDUSTRY

- 82.016 Beryllium Processing and Manufacturing
- 82.001 Lead Acid Battery Manufacturing
- 82.002 Lead Acid Battery Reclamation
- 82.003 Lead Oxide and Pigment Production
- 82.004 Lead Products (except 82.001-002, 82.006 & 82.012)
- 82.005 Primary Aluminum Production
- 82.006 Primary Copper Smelting
- 82.007 Primary Lead Smelting
- 82.008 Primary Magnesium Refining
- 82.009 Primary Zinc Smelting
- 82.010 Secondary Aluminum Production
- 82.011 Secondary Brass & Brass Ingot Production
- 82.012 Secondary Copper Smelting & Alloying
- 82.013 Secondary Lead Smelting
- 82.014 Secondary Magnesium Smelting
- 82.015 Secondary Zinc Processing
- 82.999 Other Non-Ferrous Metals Industry Sources

90.000 MINERAL PRODUCTS

- 90.001 Alumina Processing
- 90.035 Asbestos Manufacturing
- 90.002 Asphalt/Coal Tar Application Metal Pipes
- 90.003 Asphalt Concrete Manufacturing
- 90.004 Asphalt Processing (except 90.002, 90.003 & 90.034)

- 90.034 Asphalt Roofing Products Manufacturing
- 90.017 Calciners & Dryers and Mineral Processing Facilities
- 90.005 Calcium Carbide Manufacturing
- 90.006 Cement Manufacturing (except 90.028)
- 90.007 Chromium Refractories Production
- 90.008 Clay and Fly Ash Sintering
- 90.009 Clay Products (including Bricks & Ceramics)
- 90.010 Coal Conversion/Gasification
- 90.011 Coal Handling/Processing/Preparation/Cleaning
- 90.012 Concrete Batch Plants
- 90.013 Elemental Phosphorous Plants
- 90.014 Frit Manufacturing
- 90.015 Glass Fiber Manufacturing (except 90.033)
- 90.016 Glass Manufacturing
- 90.018 Lead Ore Crushing and Grinding
- 90.019 Lime/Limestone Handling/Kilns/Storage/Manufacturing
- 90.020 Mercury Ore Processing
- 90.021 Metallic Mineral/Ore Processing (except 90.018, 90.020 & 90.031)
- 90.022 Mineral Wool Manufacturing
- 90.023 Mining Operations (except 90.032)
- 90.024 Non-metallic Mineral Processing (except 90.011, 90.019, 90.017, 90.026) (NOTE: This category includes stone quarrying, sand and gravel processing, gypsum processing, perlite processing and all other non-metallic mineral/ore processing.)
- 90.026 Phosphate Rock Processing
- 90.027 Phosphogypsum Stacks
- 90.028 Portland Cement Manufacturing
- 90.029 Refractories
- 90.031 Taconite Iron Ore Processing
- 90.032 Underground Uranium Mines
- 90.033 Wool Fiberglass Manufacturing
- 90.999 Other Mineral Processing Sources

99.000 MISCELLANEOUS SOURCES

- 99.001 Abrasive Blasting
- 99.002 Chromic Acid Anodizing
- 99.003 Comfort Cooling Towers
- 99.004 Commercial Sterilization Facilities
- 99.005 Decorative Chromium Electroplating
- 99.006 Electronics Manufacturing (except 99.011)
- 99.013 Electroplating/Plating (except Chrome 99.002, 99.005 & 99.007)
- 99.019 Geothermal Power
- 99.007 Hard Chromium Electroplating
- 99.008 Hospital Sterilization Facilities

99.009 Industrial Process Cooling Towers

99.017 Leather Tanning

99.014 Polystyrene Foam Products Manufacturing

99.016 Polyurethane Foam Products Manufacturing

99.020 Rocket Demilitarization

99.010 Rocket Engine Test Firing

99.015 Rubber Tire Manufacturing and Retreading

99.011 Semiconductor Manufacturing

99.018 Synthetic Fuels Production (except 70.016 & 90.010)

99.012 Welding & Grinding

99.999 Other Miscellaneous Sources

APPENDIX C SUGGESTED PROCESS NAMES

SUGGESTED PROCESS NAMES

ABSORBER/ADSORPTION **AERATOR**

BLASTING

BLOWER

BOILER (coal, oil, etc.)

BURNER

CARBON REGENERATION (activated)

CASTING MACHINE/PROCESS

CATALYST REGENERATION

CHEMICAL PRODUCTION/MANUFACTURING

CLEANER/CLEANING PROCESS

COATER/COATING APPLICATION (includes painting)

COGENERATION

COMBUSTOR/COMBUSTION UNIT

COMPRESSOR

CONDENSER/CONDENSATION UNIT

COOLER

COOLING TOWER

CRUSHER/CRUSHING PROCESS

DEGREASER/DEGREASING PROCESS DEHYDRATOR/DEHYDRATION PROCESS DIGESTER **DISTILLATION UNIT** DRYER/DRYING

ELECTROPLATING/PLATING PROCESS

ENGINE, DIESEL

ENGINE, GAS-FIRED

ENGINE, I.C.

ENGINE, MISC.

ENTIRE FACILITY (plant)

EQUIPMENT LEAKS

EVAPORATOR/EVAPORATION PROCESS

FLARE/FLARING

FUGITIVES/FUGITIVE EMISSIONS

FURNACE

GENERATOR/GENERATING UNIT

GRINDER/GRINDING PROCESS

HEATER HYDRATOR

INCINERATOR/INCINERATION

KILN

LAMINATOR/LAMINATION PROCESS
MATERIAL APPLICATION
MATERIAL BLENDING
MATERIAL TRANSFER/HANDLING
MATERIAL STORAGE (active)
MATERIAL STORAGE (inactive)
MILL/MILLING PROCESS
MIXER/MIXING PROCESS

OVEN

PRINTING PRESS/PRINTING PROCESS PUMP

REACTOR REBOILER RECOVERY UNIT REGENERATOR ROADS

SCREEN/SCREENING PROCESS
SCRUBBER/SCRUBBING PROCESS
SEPARATOR
SHREDDER/SHREDDING PROCESS
SPRAY BOOTH
STRIPPER/STRIPPING PROCESS
SYNTHETIC ORGANIC CHEMICAL MFG. PROCESS - MISC.

TURBINE, GAS-FIRED TURBINE, OTHER

WASHER/WASHING PROCESS

APPENDIX D

SUGGESTED EMISSION UNITS BY PROCESS TYPE CODE

SUGGESTED EMISSION UNITS BY PROCESS TYPE CODE

Attached is a list of suggested emission units to be used when submitting information to the RBLC. In general, the emission units of processes not listed here should be in units related to the production output. Standardization of emission units would facilitate ranking of emission control requirements on a pollutant specific basis.

Clearinghou Process Cod	se e / Name or Description	<u>Pollutant</u>	Suggested Emission Units
ALL	All Processes with Emission Limits for Opacity or Visible Emissions	Visible Emissions	% Opacity
11.001 - 11.999	Electric Utility Steam Generators, Fossil Fuel-fired Steam Generators, Boilers, Furnaces, and Process Heaters	PM, PM10, PM2.5, VOC, SOx, NOx, CO, Pb	Lb/MMBTU (see Note #1)
15.001 - 15.999	I. C. Engines Stationary Gas Turbines	NOx, SOx, CO, VOC NOx, SOx, CO, VOC	G/B-HP-H (see Note #1) ppm @ 15% O ₂ (see Note #1)
21.001	Municipal Waste Incinerators	Particulate Metals Gas	Lb/MMBTU gr/dscm @ 12%CO ₂ ppm @ 12%CO ₂ (see Note #1)
21.004	Sewage Sludge Incineration	Particulate	Lb/Ton of dry sludge input
30.002	Kraft Pulp Mills - All Sources	HAP TRS	Kg/Mg ppm (see Note #1)
30.002	Kraft Pulp Mills - Recovery Furnace	Particulate	gr/dscf @ 8% O ₂ (see Note #1)
	Kraft Pulp Mills - Lime Kiln	Particulate	gr/dscf @ 10% O ₂ (see Note #1)
	Kraft Pulp Mills - Smelt Dissolving Tanks Kraft Pulp Mills - Digesters, Brown Stock Washers, Evaporators, Oxidation, Stripping System	Particulate	Lb/Ton BLS (see Note #1) ppm (by volume) corr to 10% O ₂

Clearinghouse Suggested					
	e / Name or Description	Pollutant	Emission Units		
41.002	Auto & Light Truck Surface Coating	VOC	Kg/1 (lb/Gal)		
			applied coating solids		
41.004	Can Surface Coating	VOC	Kg/1 (Lb/Gal)		
	Č		applied coating		
			solids		
41.007	Flexible Vinyl & Urethane Coating and	VOC	Kg/Kg/ (Lb/Lb) ink		
41 000	Printing	VOC	solids		
41.008	Large Appliance Surface Coating	VOC	Kg/1 (Lb/Gal) of applied coating		
			solids		
41.011	Metal Coil Surface Coating	VOC	Kg/l (Lb/Gal)		
	-		applied coating		
			solids		
41.012	Metal Furniture Surface Coating	VOC	Kg/1 (Lb/Gal)		
			applied coating solids		
41.015	Plastic Parts for Business Machines	VOC	Kg/1 (Lb/Gal)		
.11016	Surface Coating	, 55	applied coating		
	Ç		solids		
41.018	Pressure Sensitive Tape & Label	VOC	Kg/Kg (Lb/Lb)		
	Surface Coating		applied coating		
41.019 -	Drinting	VOC	solids % of total mass of		
41.023	Printing	VOC	VOC solvents &		
11.023			H_2O used		
			-		
50.003	Petroleum Refining - Cracking	Particulate	Lb/1000 Lb		
		SOx	Kg/Mg		
50.006	Petroleum Refining - Claus Sulfur	CO SOx, TRS,	% by volume % by volume		
30.000	Recovery Units	H_2S	70 by volume		
50.999	Petroleum Refining - Flue Gas	SOx	gr/dscf (H ₂ S)		
61.009	Phosphate Fertilizers Pdtn.	Total	Lb/Ton		
		Fluoride	(see Note #1)		
62.001	Ammonium Sulfate Pdtn.	Particulate	Lb/Ton ammonium		
			sulfate pdtn.		
62.014	Nitric Acid Plants	NOX	Lb/Ton		
<2.01 .	0.16		(see Note #1)		
62.015	Sulfuric Acid Plants	SO ₂ &	Lb/Ton		
		Acid Mist	(see Note #1)		

Clearinghou Process Code	se <u>e</u> / <u>Name or Description</u>	Pollutant	Suggested Emission Units
65.001 - 65.999	Synthetic Fibers Production	VOC	Kg/Mega-gram (Lb/1000 Lb) solvent feed
70.007	Grain Elevators	Particulate	gr/dscf (see Note #1)
81.003	Ferroalloy Production	Particulate CO	Lb/MW-H 20% (volume basis)
81.004 81.006	Iron Foundries Steel Plants - Electric Arc	Particulate Particulate	gr/dscf gr/dscf
			(see Note #1)
82.001	Lead Acid Battery Mfg.	Pb (Lead)	gr/dscf or Lb/Ton lead feed
82.005	Primary Aluminum Pdtn.	Total Fluorides	Lb/Ton
82.006	Primary Copper Smelters	Particulate	gr/dscf
82.007	Primary Lead Smelting	Particulate	(see Note #1) gr/dscf
82.009	Primary Zinc Smelting	Particulate	(see Note #1) gr/dscf
82.011	Sec. Brass & Brass Ingot Pdtn.	Particulate	(see Note #1) gr/dscf
82.013	Secondary Lead Smelting	Particulate	(see Note #1) gr/dscf (see Note #1)
90.004 90.011	Hot-Mix Asphalt Processing Coal Hand./Proc./Prep./Cleaning	Particulate Particulate	gr/dscf gr/dscf
90.016	Glass Mfg. Furnace	Particulate	(see Note #1) Lb/Ton
90.019	Lime/Limestone Handling/Kilns/Storage/Mfg.	Particulate	(see Note #1) Lb/Ton
90.021	Metallic Mineral/Ore Processing	Particulate	grams/dscm (gr/dscf)
90.024	Non-metallic Mineral Processing	Particulate	grams/dscm
90.026 90.028	Phosphate Rock Processing Portland Cement Plants	Particulate	(gr/dscf) Lb/Ton Lb/Ton (see Note #1)

Clearinghous	e		Suggested
Process Code	/ Name or Description	Pollutant	Emission Units
90.033	Wool Fiberglass Mfg.	Particulate	Lb/Ton glass pulled
90.034	Asphalt Roofing Products Mfg.	Particulate	Kg/Mega-gram
			(Lb/1000 Lb)
99.015	Rubber Tire Mfg. Industry - Bead	VOC	G/Bead/Month
	Cementing Operation		
	Rubber Tire Mfg. Industry - Tread End	VOC	G/Tire/Month
	Cementing Operation, Inside Green Tire		
	Spraying (Water Based), Outside Green		
	Tire Spraying (Water Based)		
	Rubber Tire Mfg. Industry - All Other	VOC	% Reduction
	Sources		

Note #1:

These units are required for reporting emission limits in the RBLC data base for these processes.

APPENDIX E

FORMAT FOR RACT/BACT/LAER CLEARINGHOUSE SUBMITTALS AND INSTRUCTIONS FOR COMPLETING RACT/BACT/LAER CLEARINGHOUSE INPUT FORM¹

¹The instructions and text contained in this section are based on the current state of the RBLC and it's data bases. The RBLC is currently going through a major platform switch from the TTN BBS formats to a Web based format. This switch is expected to be completed in the Fall of 1999. When this effort is completed the old RBLC BBS will be shut down and the Web based RBLC will be the primary data base. In addition to the platform changes, the RBLC is adding several data fields to accommodate New Source Review specific data. These changes will be completed this Fall and will render the RBLC Stand-alone Editor and RBLC Desktop viewer programs obsolete. We will make every effort to keep users informed as to the status of these major changes. If you have specific questions please call the CATC Hotline at (919) 541-0800.

FORMAT FOR RACT/BACT/LAER CLEARINGHOUSE SUBMITTALS

Information can be submitted to the RBLC in the following formats:

- Direct on-line submittal using RBLC BBS.
- Direct input using the stand-alone editor.
- Paper input using Clearinghouse submittal forms.

The on-line and stand-alone submittal procedures are the preferred formats. Designated users can obtain a password that allows them to access the RBLC data base Edit module on the BBS. Users can add new determinations and make changes to current entries in the Clearinghouse. Designated users can also obtain a copy of the stand-alone version of the Edit module to enter NEW determinations on their local PCS, without a modem/direct dial or Internet connection and its associated cost. After completing data entry, users forward their determinations to the RBLC for inclusion on the on-line data base. (The stand-alone editor cannot be used to edit determinations previously entered into the on-line RBLC data base). All inquiries concerning RBLC submittals should be directed to:

RACT/BACT/LAER Clearinghouse (MD-12) Information Transfer & Program Integration Division U.S. Environmental Protection Agency Research Triangle Park, North Carolina 27711

OR

The Clean Air Technology Center Information Line (919) 541-0800, FAX (919) 541-0242

The RBLC Input Form is available for downloading from the Product Information section of the CATC home page. Designed to facilitate the input of determinations and corrections, the form can be used to prepare new determinations and/or to update existing information. For those who wish, the hardcopy (paper) submittal form can be mailed to the RBLC at the above address.

INSTRUCTIONS FOR COMPLETING RACT/BACT/LAER CLEARINGHOUSE INPUT FORM

- 1. <u>Company Name/Site Location</u>: Insert name and address of the proposed facility. The address should be the location of the proposed facility not the address of the parent company unless they are the same.
- 2. **Determination Made by:** Designate the permitting agency and the person to whom telephone requests should be directed. This should be the person most capable of responding to factual questions about the permit decision. Please include the area code with the phone number.
- 3. **Permit/File Number:** This should be the identification number assigned by the agency that issued the permit.
- 4. **ID Numbers and Codes:** Fill-in the requested AIRS identification number, if available, and the SIC code.
- 5. **Scheduling Information:** Permitting scheduling dates stored include:
 - receipt of application (estimated or actual)
 - final permit issued (estimated or actual)
 - start-up operation (estimated or actual)
 - compliance verification (estimated or actual)

Please enter all of the scheduling information available.

- 6. **Facility Notes:** This section is for the completion or elaboration of any of the above items where space was a problem. Also, any information that you feel other agencies should know about this determination should appear here. Notes are typically used for the following:
 - More than one permit number
 - More detail on a particular process
 - More than one contact person
 - Further explanation regarding the designation of a source as new or modified
 - Further explanation of the emission limit or the support documentation associated with setting the limit (i.e., limit based on design or stack test)
- 7. **Process Description:** List all processes subject to this permit by name (e.g., kiln, boiler) for which a throughput limit, operating limit, emission limit, control strategy, performance or equipment standard has been specified. Use additional pages as necessary. Additional information on a process may be placed in the Process Notes section.

Process name or process equipment should be listed using one of the process categories listed in Appendix C (Detailed Listing of Proposed Process Categories). A descriptor may be added behind the generic category name. For example,

Boiler, coal-fired, 3 each Kiln, 3 each Conveyors, coal/limestone Furnace, arc Boiler, recovery Boiler, power Engines, gas-fired

- 8. **Process Type Code:** A code assigned to each process (see Appendix B) used to categorize determinations.
- 9. **SCC Code:** This code is the standard source classification for processes used throughout the Office of Air at EPA.
- 10. **Throughput Capacity:** Indicate the maximum design capacity of the unit. Use the same units of measure used in the NSPS to describe the size of a source. Wherever possible, use the list of standardized abbreviations for process and emission limit Appendix D.
- 11. <u>Compliance Verification</u>: This series of fields allows you to enter a yes or no response to the following questions:
 - Compliance verified?
 - Method of confirmation:

Stack testing?

Other testing?

Inspection?

Calculations?

You may also enter a narrative description of other types of confirmation methods.

- 12. **Process Notes**: This field should contain any additional information on the process being permitted.
- 13. **Pollutant(s) Emitted:** Make an entry for each pollutant or parameter for which a control requirement or other restraint has been specified (PM, SO₂ CO₂, NO₂, opacity, or others).

Use a separate block for each entry, and identify the pollutant and provide its Chemical Abstracts (CAS) number. Use the following standard abbreviations for these common pollutants whenever possible:

PM Particulate Matter SO₂ Sulfur Dioxide NO₂ Nitrogen Oxides CO Carbon Monoxide

VOC Volatile Organic Compounds

VE Visible Emissions

TRS Total Reduced Sulfur

F Fluoride Be Beryllium

H₂S Hydrogen Sulfide

Hg Mercury

VC Vinyl Chloride

Abbreviations for other pollutants are listed in Appendix D, along with CAS numbers.

14. **Emission Limit(s):** For consistency and ease of comparison, list the emission limit or rate in the units of measure listed in Appendix C or those used in AP-42. Wherever possible use the list of standard abbreviations (Appendix D).

There are multiple emission limits in the Clearinghouse, they are:

- Primary emission limit and units: The primary emission limit listed in the permit.
- Alternate emission limit and units: If provided on the permit, these numbers represent any alternate emission measurements which the facility may make.
- Standardized limit and units: This limit allows comparison with other similar determinations in the RBLC. Standard units are provided for certain process types (see Appendix D) so that users can compare the entries in this field to determine the most stringent limits.

The base-line limit is no longer used in the RBLC data base.

- 15. **Emission Type:** A one-character field indicating whether the emission is fugitive, point-source, or area-source.
- 16. **Pollution Reduction Ranking Information:** Two pieces of information are requested: The number of options examined and the rank of the option selected. The "rank" is the number of the option selected when the options are ordered according to the performance

of the system. Number 1 would be the best controlled system, number 2 would be the next best, etc.

17. Regulatory Requirements Associated with Limit (Basis of Limit): Indicate the regulatory requirement that precipitated establishing the limit presented, i.e., BACT-PSD, BACT-Other, LAER, MACT, RACT, GACT, NSPS, NESHAP, or Other. Do not list such items as stack test, design or others. These items generally represent the supporting information that may have been used to document or establish the given limit. Such items should be included in the notes section.

To facilitate the identification of limits use the following abbreviations:

- BACT-PSD (Prevention of Significant Deterioration)
- BACT-Other (regulated by state/local rules, not PSD)
- LAER (lowest Available Control Technology)
- MACT (Maximum Achievable Control Technology)
- RACT (Reasonably Available Control Technology)
- GACT (Generally Available Control Technology)
- NSPS (New source Performance Standards)
- NESHAP (National Emission Standards for Hazardous Air Pollutants)
- Other
- 18. Pollution Reduction Method Description: Describe the specific pollution prevention techniques and add-on equipment used to achieve the permitted emission limits. Specify "NONE" if no controls are feasible. Pollution prevention techniques include operational modifications, limits in the type and amount of raw materials used, limits on throughout or hours of operation, maintenance requirements, equipment specifications, or other limitations. Typical add-on equipment includes ESP, fabric filter, etc. Information in this section may be supplemented under the "Notes" section.

Please note that the RBLC no longer has separate fields for equipment manufacturer and model number. Place this information, if you have it, in the notes.

- 19. **Overall Efficiency %:** Enter the overall system pollution reduction efficiency, consisting of capture (hoods, ductwork, etc.) and collection (control device) efficiency. Any breakdown of efficiencies for capture or collection individually should be shown under "Notes." For P2, indicate the overall effectiveness of the P2 methods.
- 20. **Cost Data:** Pollution reduction costs include:
 - Capital cost of control equipment
 - Annual operation and maintenance cost for all control methods
 - Annualized cost (amortized capital cost + annual operation & maintenance costs)
 - Cost effectiveness in dollars per ton (annualized cost/tons of

pollutant removed)

- Year of the dollar used in cost calculations
- Cost verified by the permitting agency (yes or no)

When you have completed the form, mail it to the following address:

RACT/BACT/LAER CLEARINGHOUSE RBLC (MD-12) US EPA RTP, NC 27711

APPENDIX F

INDEX OF CONTROL TECHNOLOGY DETERMINATIONS

<u>Note</u>: Appendix F lists determinations entered into the RBLC since June 1994. Older determinations in the RBLC data base do not appear here.

APPENDIX G

CONTROL TECHNOLOGY DETERMINATIONS FOR PROCESSES

<u>Note</u>: Appendix G lists determinations entered into the RBLC since June 1994. Older determinations in the RBLC data base do not appear here.

APPENDIX H

DETAILED SOURCE LISTINGS FOR NEW DETERMINATIONS

<u>Note</u>: Appendix H is published for sources inserted since June 1998 with this supplement. Determinations which are incomplete may be deleted from the RBLC at a future date.

The information is organized by RBLC ID number. Due to space limitations, Part B is not included here. Refer to the data base for this information.